FIFTY CENTS

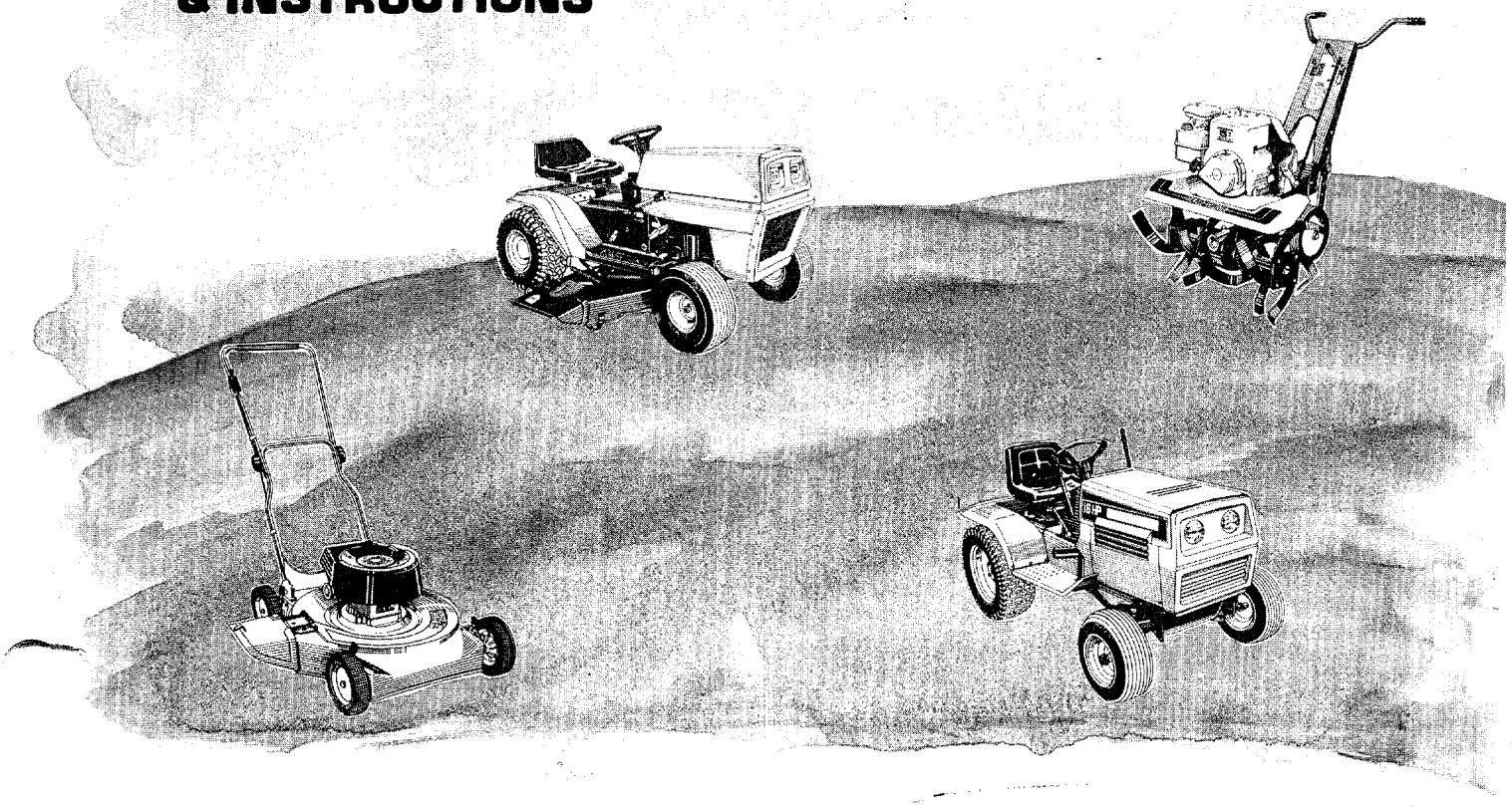
OWNER'S GUIDE

MODEL NO. 149-810A

ASSEMBLY
OPERATION
PARTS
MAINTENANCE

GARDEN TRACTOR

IMPORTANT:
READ SAFETY RULES & INSTRUCTIONS



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FORM NO. 770-8595

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges under this warranty must be paid by the purchaser unless return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING TO PURCHASERS
OF INTERNAL COMBUSTION ENGINE EQUIPPED
MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

➡IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Do not carry passengers.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operator position.
8. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
10. Disengage power to attachment(s) when transporting or not in use.
11. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. Handle gasoline with care—it is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
22. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
23. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
24. Do not change the engine governor settings or overspeed the engine.
25. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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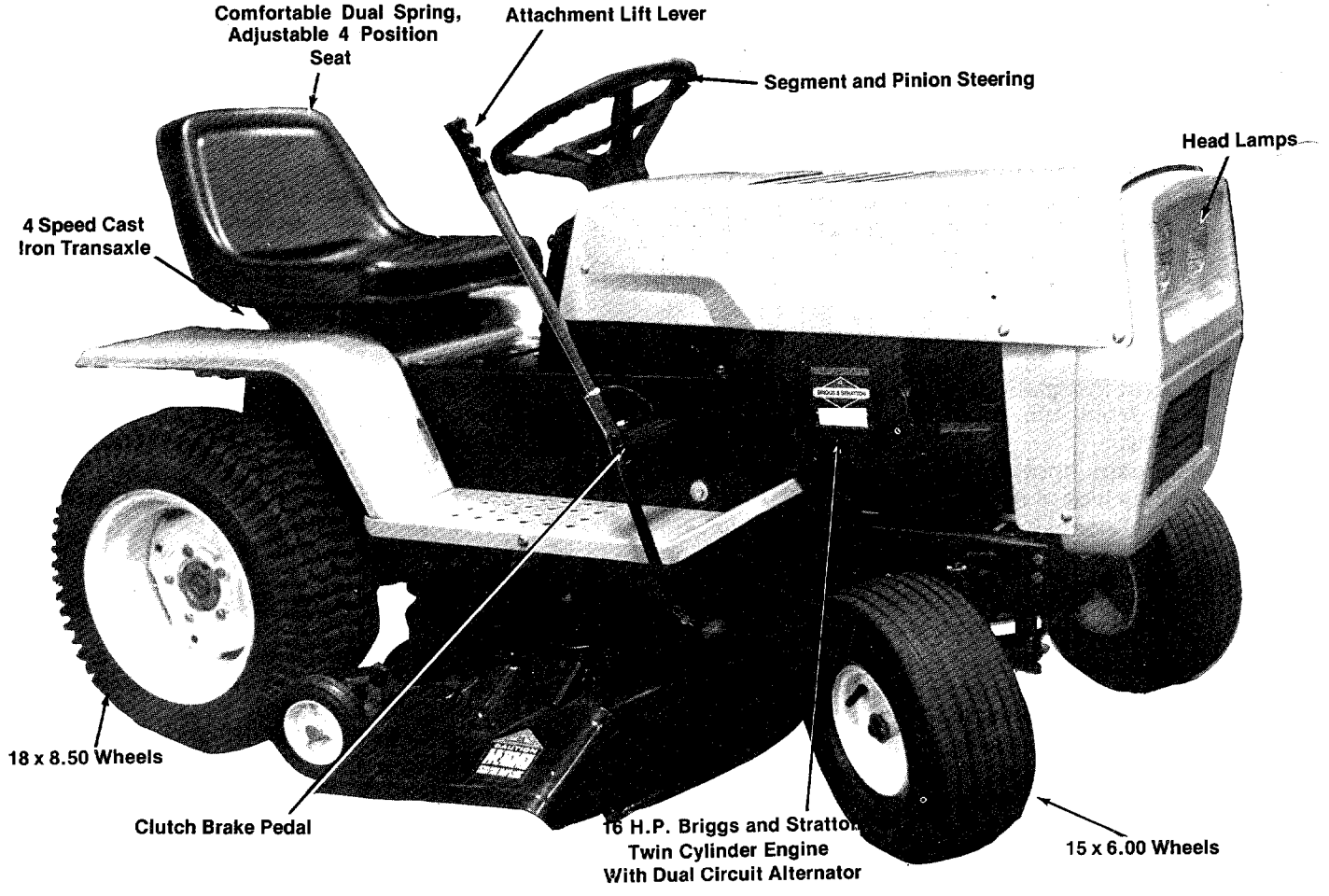
KNOW YOUR TRACTOR


Comfortable Dual Spring, Adjustable 4 Position Seat
Attachment Lift Lever
Segment and Pinion Steering
Head Lamps
4 Speed Cast Iron Transaxle
18 x 8.50 Wheels
Clutch Brake Pedal
16 H.P. Briggs and Stratton Twin Cylinder Engine With Dual Circuit Alternator
15 x 6.00 Wheels

ASSEMBLY

The Garden Tractor is packed and shipped in one container and is fully assembled except for the steering wheel, seat, battery and mounting the cutting deck.

BATTERY INFORMATION

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.

C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

A. Keep sparks, flame, cigarettes away.

B. Hydrogen gas is generated during charging and discharging.

C. Ventilate when charging or using in enclosed space.

D. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.

E. Always shield eyes, protect skin and clothing when working near batteries.

ACTIVATING THE BATTERY

NOTE

If the battery has been installed in the battery case at the factory, you only have to attach the negative (grounded) wire to the negative battery terminal with a hex head bolt ¼ x 3/4" lg., lockwasher and nut. Then proceed to attaching the seat assembly.

1. Place battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.
2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to be 3/8" above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes to ½ hour. Add additional acid if necessary to bring it up to the proper level.
4. Replace the vent caps.
5. The battery can now be charged after the 20 minute setting period. Battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265-1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.

CAUTION

After battery has been in service, add only approved water. DO NOT ADD ACID.

NOTE

See page 12 for battery maintenance information.

Installing the Battery

NOTE

The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

1. Place the battery in the battery box with the terminals towards the rear of the tractor.
2. Secure the battery with the two hold down rods, battery hold down, lockwashers and wing nuts. See figure 1.

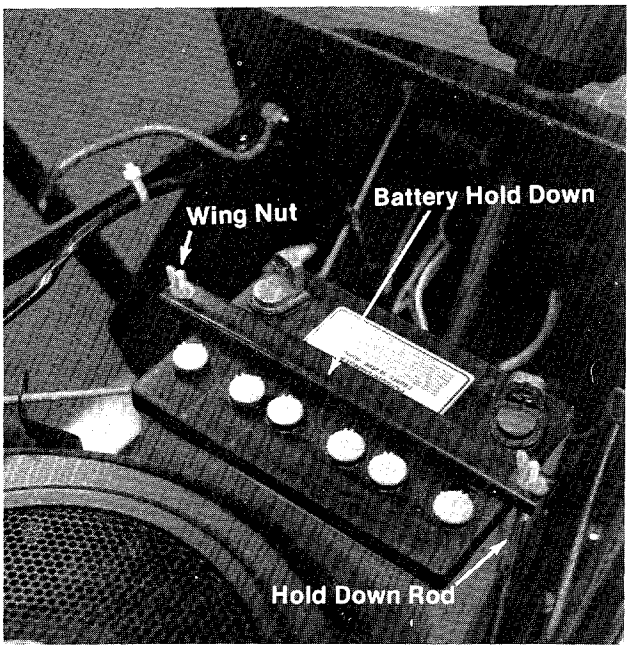


FIGURE 1

3. Attach the positive cable (from the starter solenoid) and the small wire (from the circuit breaker) to the positive battery terminal (+) with a ¼-20 x ¾" long bolt, lockwasher and hex nut.
4. Attach the negative cable (grounded) to the negative battery terminal (-) with the other ¼-20 x ¾" long bolt, lockwasher and hex nut.

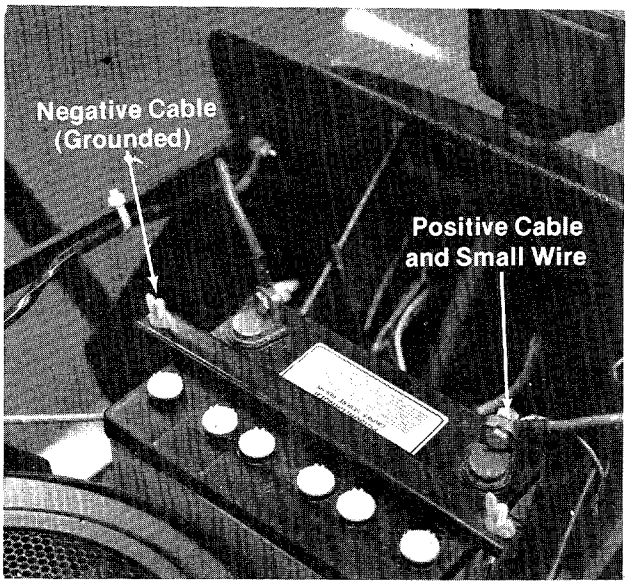


FIGURE 2

NOTE

The vented battery allows any gases or liquid from the battery to be carried to the rear of the tractor and onto the ground.

SEAT ASSEMBLY

The seat can be adjusted to four positions. With the seat tipped forward, hook the front of the seat spring into the slots on the tractor frame. Allow the seat to pivot backwards until it rests on the rear of the springs. (See figure 3.)

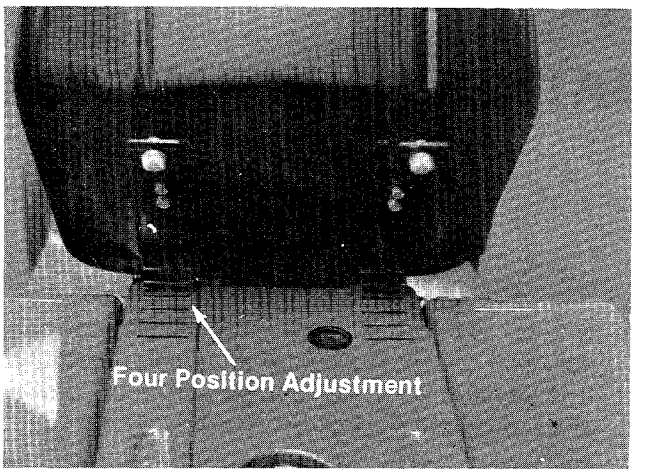


FIGURE 3

STEERING WHEEL

1. Place the steering wheel over the steering column extending through the dash. Line up the flats on the steering column with the flats in the steering wheel. (See figure 4.)

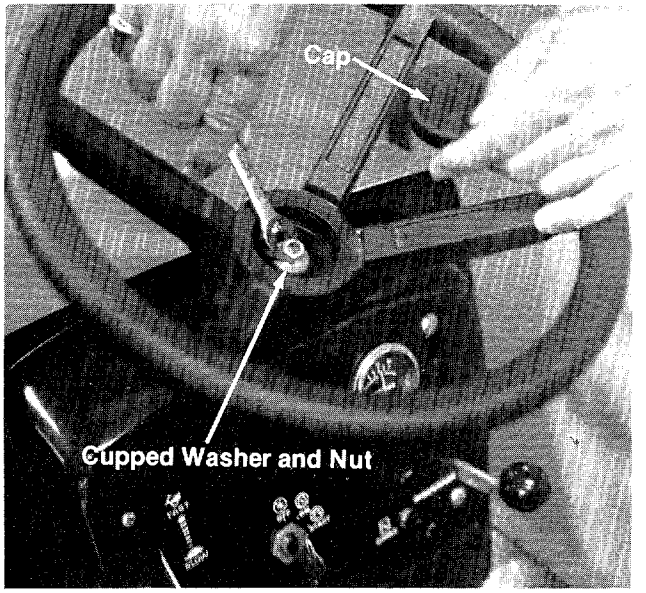


FIGURE 4

2. Place the washer with the cupped side down over the steering column and secure with a hex nut 5/16".
3. Place the cap over the center of the steering wheel and seat it with your hand.

TIRE PRESSURE

Reduce the rear wheel tire pressure to 15 p.s.i. for operation. The tires have been over-inflated for shipping. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.

ATTACHING THE CUTTING DECK

Deck Assembly Screw Pack

4 Flat Washers 1/2" I.D
1 Small Cotter Hairpin
4 Medium Cotter Hairpins
2 Large Cotter Hairpins

1. Remove the round belt keeper from the idler by removing the cotter hairpin. (See figure 5.)
2. Unscrew the "L" bolt and swing the wire belt guard on the engine pulley forward.

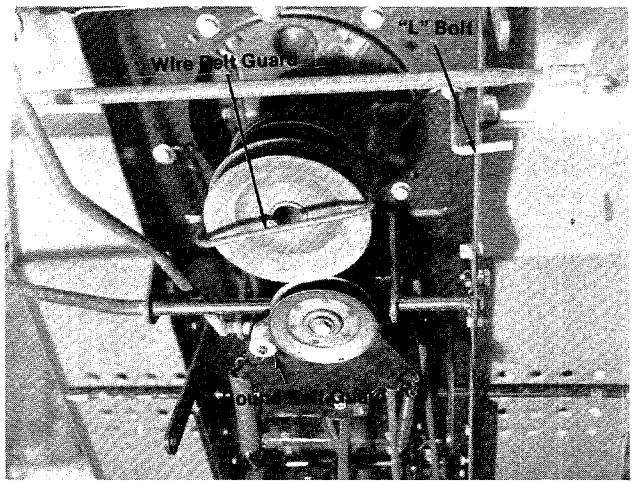


FIGURE 5.

3. Adjust the deck wheels to their lowest cutting position.
4. Move the tractor lift handle all the way back to the full raised position.
5. Turn the tractor steering wheel all the way to the left.
6. Slide the deck under the tractor from the left side.
7. Attach the four tractor hanger brackets to the deck with four 1/2" I.D. washers and four medium cotter hairpins. (See figure 6.)

NOTE

The left front tractor hanger bracket goes through the center of the V-belt.

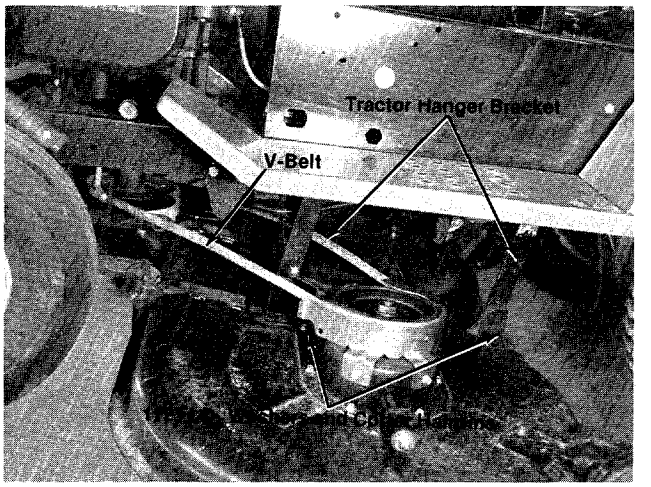


FIGURE 6

7. Assemble the front cross bar as shown in figure 7 using two large cotter hairpins to attach the deck linkage to the tractor frame.

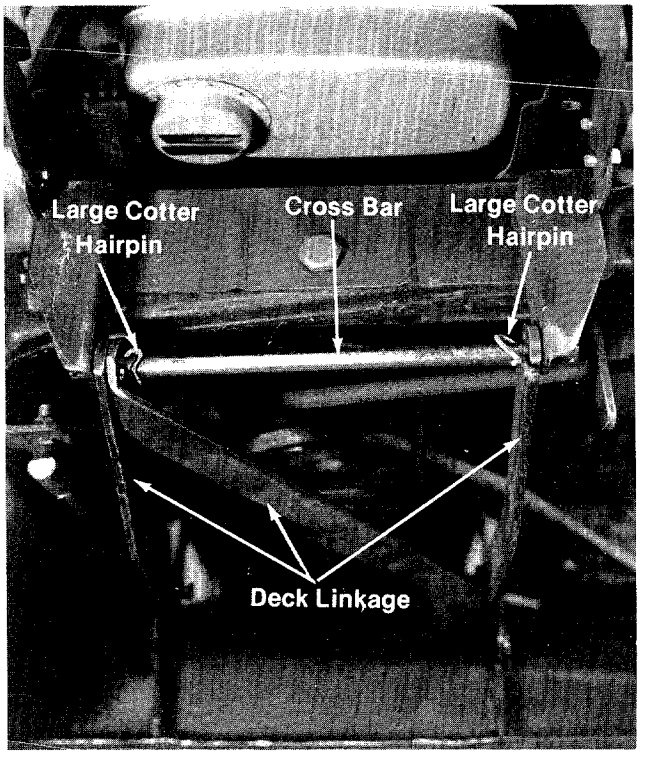


FIGURE 7

8. Place the deck belt around the engine pulley and idler. (See figure 8.)
9. Replace the round belt guard and swing the wire belt guard over the engine pulley and secure it with the "L" bolt.
10. Check all belt guards for clearance. The belt guards must be between 1/16" and 1/8" away from the belt when the PTO lever is in the engaged position.

11. Hook the brake release cable into the tractor idler bracket and secure it with the small cotter hairpin.

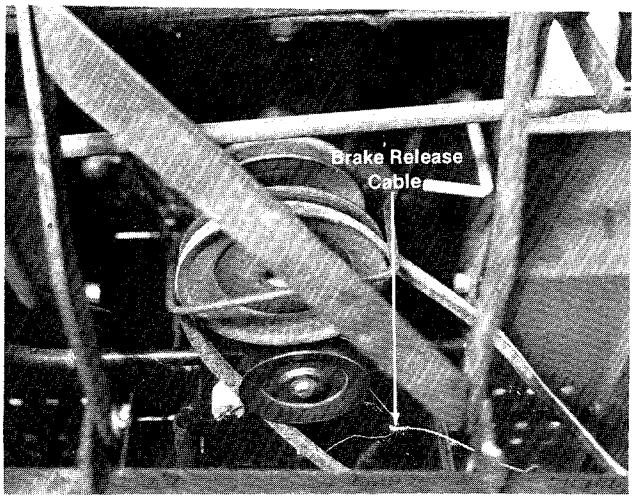


FIGURE 8

CONTROLS AND PRELIMINARY CHECKS

CONTROLS

Ignition Switch

The ignition switch is located in the center of the dashboard. Turn the key to the START position to start the engine. When the engine is running leave the key in the ON position. To stop the engine turn the key to the OFF position. (See figure 9.)

WARNING

Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

Throttle Control

The throttle control is located on the left side of the dashboard and is used to regulate the engine speed. (See figure 6.) The engine should be operated from ¾ to full throttle (FAST) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller. (See figure 9.)

Light Switch

The headlamps are operated by pushing the light switch located on the dashboard. The headlamps will only operate when the engine is running. (See figure 9.)

Ammeter

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the FAST position until the battery is completely charged.

With a fully charged battery or with the engine idling the ammeter may not show a charge.

The maximum charging rate is 3 amps. The headlamps operate directly from the engine alternator and do not register on the ammeter. (See figure 9.)

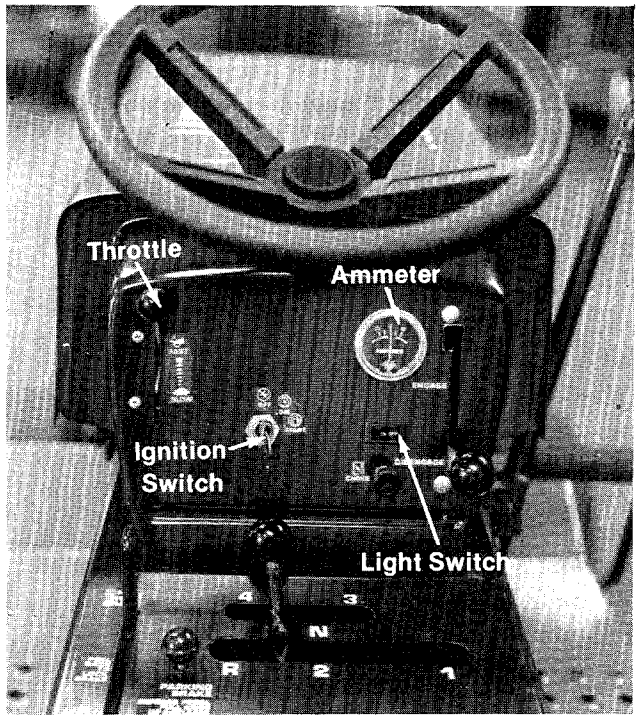


FIGURE 9

Seat Adjustment

The tractor seat is adjustable to four positions. To change positions, tip the seat all the way forward and lift it out of the slots on each side. (See figure 10.)

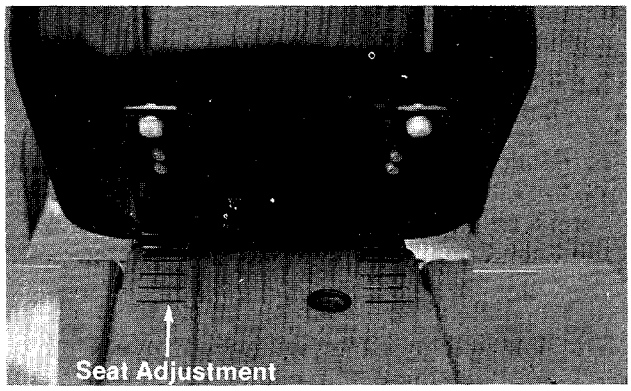


FIGURE 10

Gear Shift Lever

The transaxle has four forward gears, neutral and reverse. You do not shift through the gears on the transaxle as you would in an automobile. Pre-select the gear appropriate for the job you are doing. (See figure 10.)

You must depress the clutch-brake pedal and come to a complete stop before shifting gears. (See figure 11.)

Clutch-Brake Pedal

The clutch-brake pedal is located on the right side of the tractor. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake.

NOTE

The clutch-brake pedal must be depressed to start the engine.

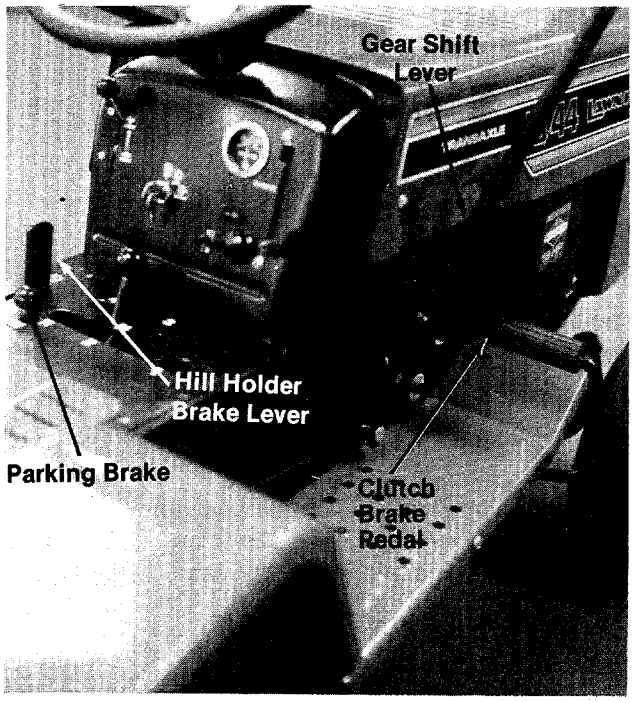


FIGURE 11

Parking Brake

To set the parking brake, depress the clutch-brake pedal and pull up the parking brake knob. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal. (See figure 11.)

Hill Hold Brake Lever

When stopping on a hill, hold the lever back while you release the clutch-brake pedal until the tractor begins to move, then release the lever. This prevents you from rolling down the hill while releasing the clutch. (See figure 11.)

Lift Lever

The five position lift lever is used to change the operating position of the attachments. To operate, pull the lever towards you. To release, move the lever to the right and then forward. (See figure 12.)

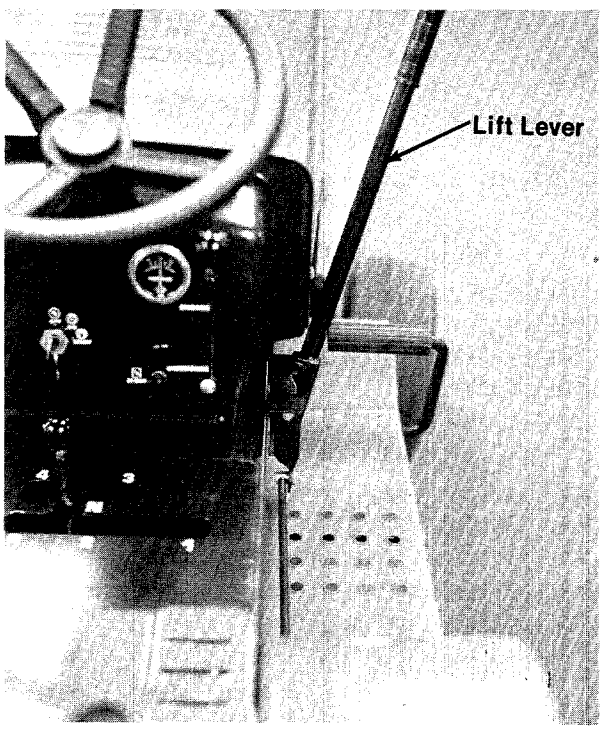


FIGURE 12

Power Take Off (PTO) Lever

The PTO lever is located on the right side of the dashboard. To engage the PTO, lift the lever slowly and lock it into the notch. (See figure 13.)

NOTE

The PTO lever must be in the disengaged position (down) to start the engine.

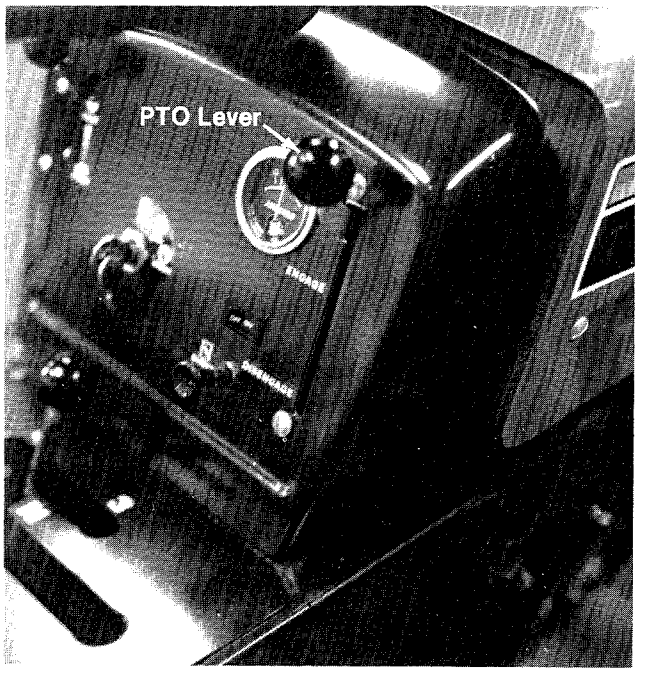


FIGURE 13
CHECKING OIL AND GASOLINE

NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. DO NOT mix oil with gasoline.

Briggs & Stratton. Use a high quality detergent oil classified "For Service SC or SD or MS". Nothing should be added to the recommended oil.

Summer. (Above 40°F.) Use SAE 30. If not available use SAE 10W-30 or SAE 10W-40.

Winter. (Under 40°F.) Use SAE 5W-20 or SAE 5W-30. If not available, use SAE 10W or SAE 10W-30. Below 0°F., use SAE 10W or SAE 10W-30 diluted 10% with kerosene.

Place the engine level. Fill the oil sump to the FULL mark on the dipstick. Pour slowly.

Crankcase Capacity—3½ Pints.

OPERATION

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
   Place gear shift lever in the neutral position.
   Depress the clutch-brake and set the parking brake.
   Place the PTO lever in the OFF position.
   Shut off the engine.
   Remove the ignition key.
3. Wait for all movement to stop, remove and ground the spark plug wire to the engine block before servicing the machine.
4. Keep people and pets a safe distance away from the machine.

Operation

1. Place the PTO lever in the disengaged (down) position.
2. Pull out the choke control. A warm engine requires less choking.
3. Set the throttle control in the FAST position.
4. Depress the clutch-brake pedal and hold it down.
5. Turn the ignition key to the START position. After the engine starts, release the key.
6. With the clutch-pedal depressed, move the gear shift lever into one of the forward gears.
7. Slowly release the clutch-brake pedal and the tractor will move forward.
8. When stopping, depress the clutch-brake pedal. This will apply both the clutch and the brake.
9. To shut off the engine, turn the ignition key to the left to the OFF position.

MAINTENANCE—Garden Tractor

TROUBLESHOOTING

Refer to the chart on page 18 for troubleshooting engine problems.

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Oil Check

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figure 14.

Oil Change

After the first two hours of operating a new engine, drain the oil (see figure 14) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. This procedure ensures for minimum wear of engine parts and provides for virtually trouble-free operation. To change the oil, proceed as follows:

Step 1. Remove oil filler plug.
Step 2. Drain the oil.
Step 3. Replace oil filler plug.

Step 4. Refill crankcase with oil. See page 10 for quantity and type of oil.

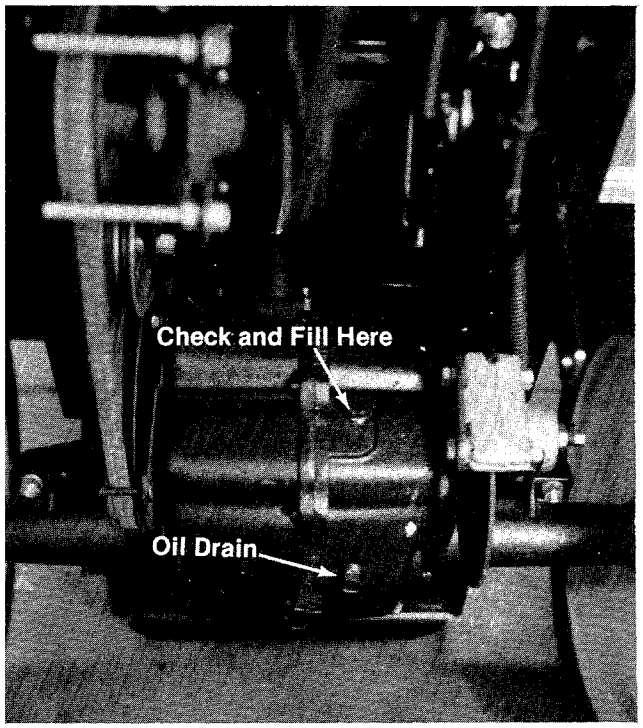


FIGURE 14.

Steering Gears

Wipe off the old grease and dirt. After every 25 hours of operation place an automotive multi-purpose grease in the teeth of the segment and pinion gears. (See figure 15.)

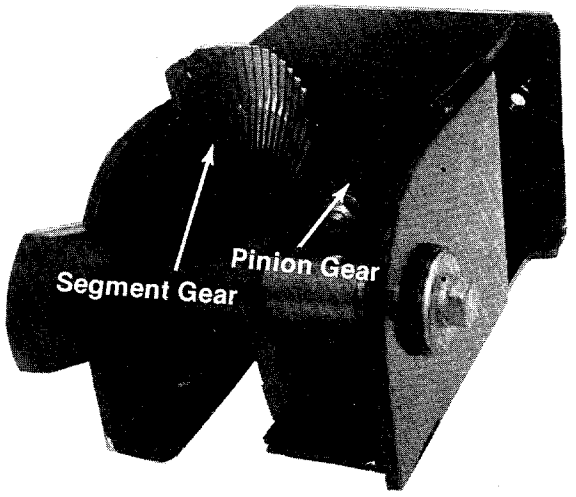


FIGURE 15.

Transaxle

Check the oil level four times a year. Lubricant should be at the point of overflowing. Use E.P. 90 oil. Drain and refill every two years. Capacity 4 pints. (See figure 16.)

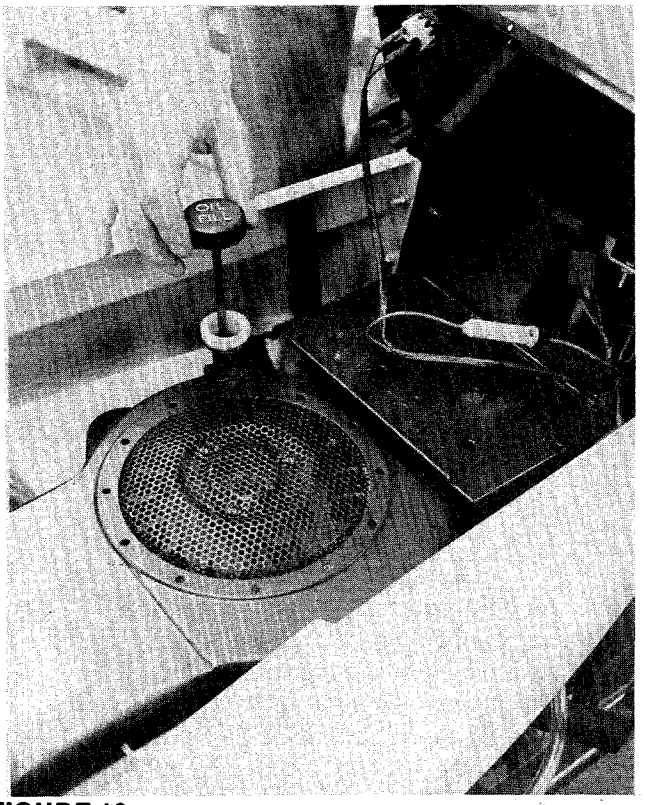


FIGURE 16

Linkage—Once a season lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

Wheel Bearings—The front wheel bearings and king pin bearings have Oilon PV 80 bearings that require no lubrication.

Ball Joints—The ball joints and drag link ends are permanently lubricated.

Battery Care and Handling

The use of distilled water is recommended. You may use drinking water unless the water has a high mineral content.

During freezing weather do not add water to the battery unless the tractor is going to be operated for a sufficient time to properly charge the battery.

Maintain the fluid level in the battery to the level indicated on the top of the battery. Keep the terminals clean and coated with grease.

WARNING

Whenever a battery is installed in a tractor, attach the positive cable first and then the negative (ground) cable.

When removing the battery, always disconnect the negative (ground) cable first.

NOTE

The fluid in the battery is corrosive; avoid spilling it. When performing maintenance on the machine, and battery is not in use, remove it to prevent inadvertent spilling.

Battery Storage

If your tractor is not to be used during an off season, the battery can be left in the tractor and MUST be stored in a charged condition. The specific gravity must read 1.265 or higher. Use a 12 volt, DC charger with MAXIMUM CHARGING RATE OF 5 AMPS.

CAUTION

A discharged or partially discharged battery can freeze and crack causing extensive damage to the tractor.
During extreme cold weather, recharge the battery every 2 months or whenever the specific gravity is less than 1.200.
Charge the battery just prior to being put back into service.

Installation of Tire to Rim

WARNING

The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

Rear Wheel Tract Adjustment

The distance between the rear wheels can be changed from wide to narrow by removing the rear wheels one at a time and reversing them on the hub.

With the rear wheels in the narrow position, their outside is even with the outside of the front wheels.
With the rear wheels in the wide position their inside is even with the inside of the front wheels.

Wheel Alignment

The front wheels should toe-in approximately 1/8".

Measure the distances A and B on the front wheels. (See figure 17.)

NOTE

Dimension B should be approximately 1/8 inch less than dimension A.

To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, lift the tie rod end out of the hole in the steering arm and screw the tie rod end in or out as necessary. (See figure 18.)

Reassemble the tie rod end after the correct alignment is made.

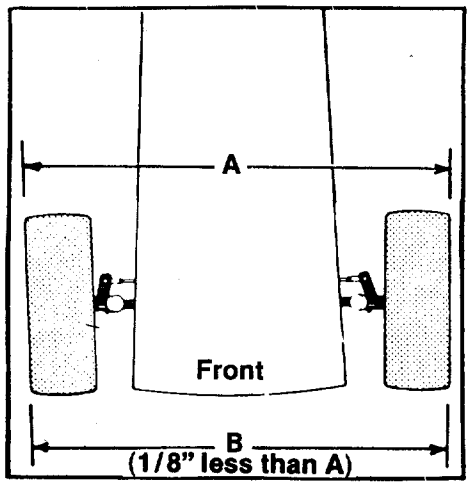


FIGURE 17

Drag Link

If the drag link or ball joints are changed the new assembly must be adjusted to the exact same length as the original. If adjusted wrong it will allow the tractor to turn sharper one direction than the other.

To take off the drag link, remove the nuts and lockwashers holding the ball joint to the steering gear and left front axle bracket.

Brake Adjustment

CAUTION

Do not adjust the brake while the engine is running. Be sure to block the wheels of the tractor before making the brake adjustment.

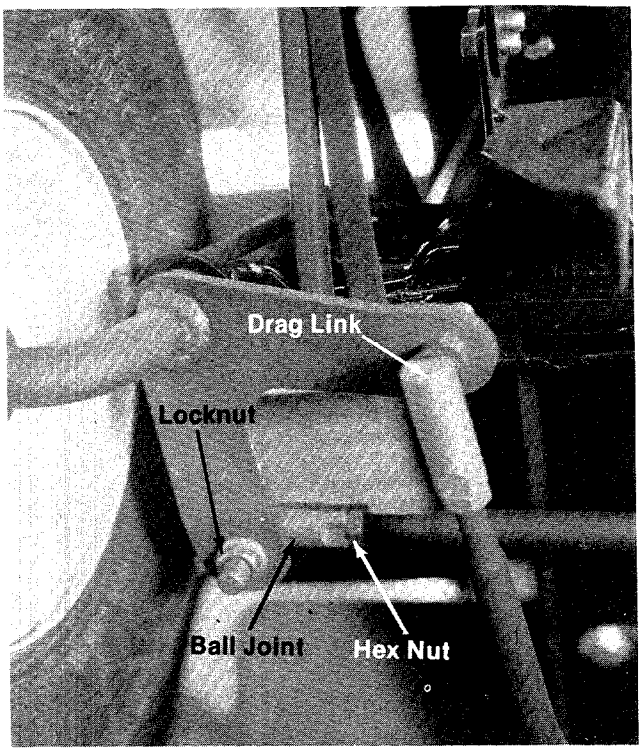


FIGURE 18

1. Loosen the locknut. (See figure 19.)
2. Tighten the center bolt all the way in.
3. Unscrew the center bolt one complete turn.
4. Test the brakes and repeat step three if necessary.
5. Tighten the locknut.

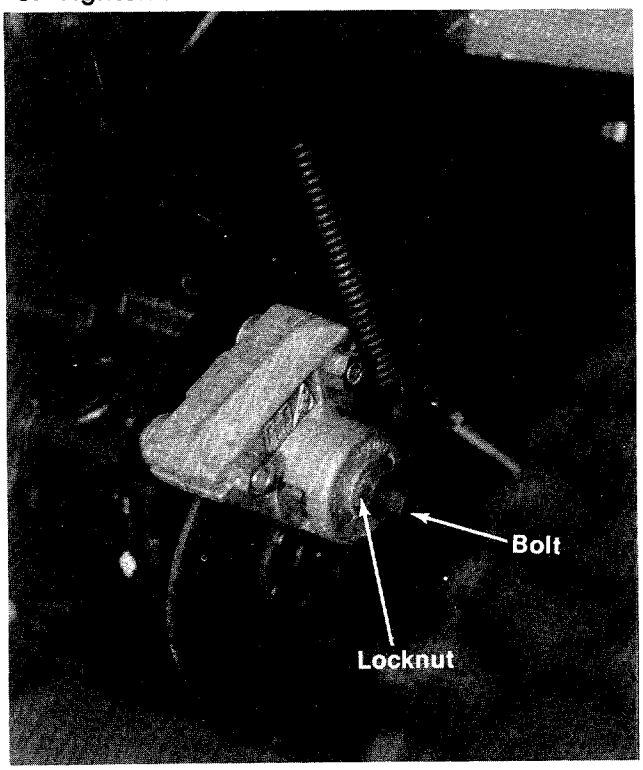


FIGURE 19

Changing the Front Drive Belt

1. Remove the cutting deck and battery.
2. Raise and block the front wheels of the tractor so you can work under it.
3. Unscrew the belt guard release next to the engine pulley. (See figure 20.)

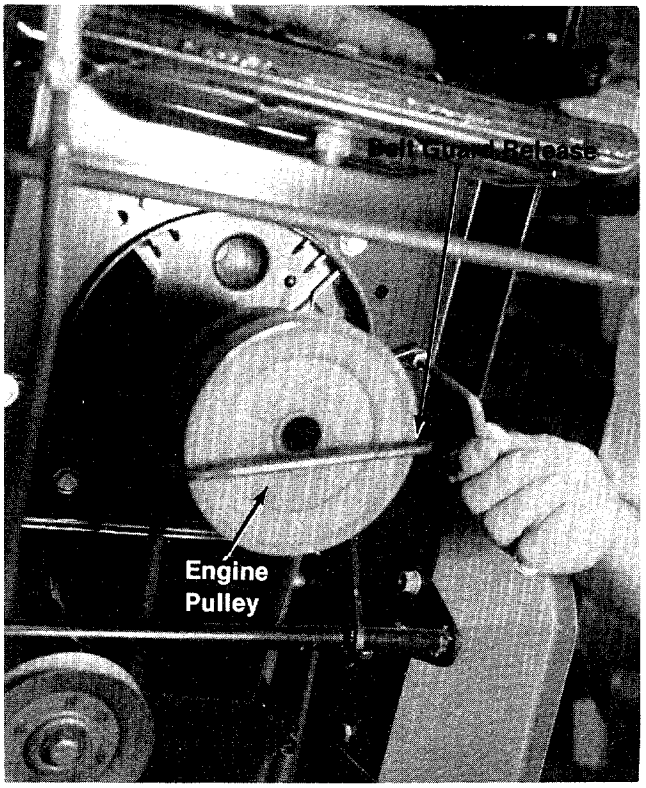


FIGURE 20

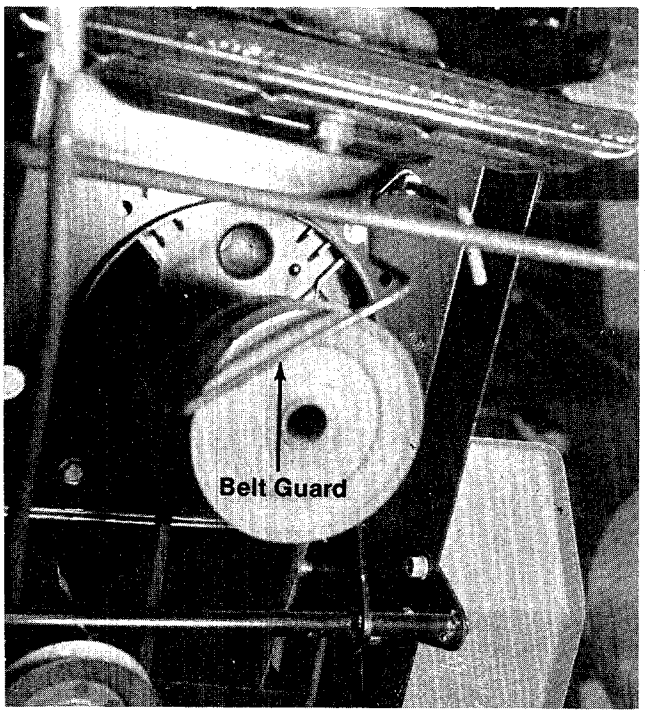


FIGURE 21

4. Swing the belt guard forward towards the front of the tractor. (See figure 21.)

WARNING

Observe the way the belt is twisted. If the new belt is installed backwards, the tractor will run backwards.

5. Using a bar or large screwdriver, pry the pulley assembly towards the front of the tractor and unhook the belt from the pulley. (See figure 22.)
6. Install the new belt by hooking it over the engine pulley and twisting the belt to the left as you attach it to the pulley.
7. Test the operation of the tractor to assure the belt has been installed correctly.

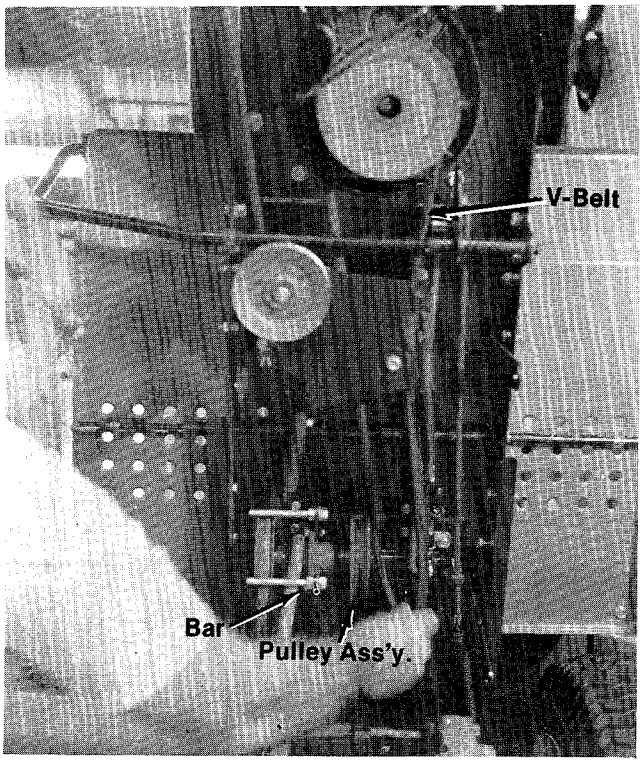


FIGURE 22

Removing the Rear (Clutch) Belt

1. Remove the cutting deck and battery.
2. Raise and block the front wheels of the tractor so you can work under it.
3. Depress the clutch-brake pedal and set the parking brake.
4. Remove the two belt guard pins on the pulley assembly. (See figure 23.)

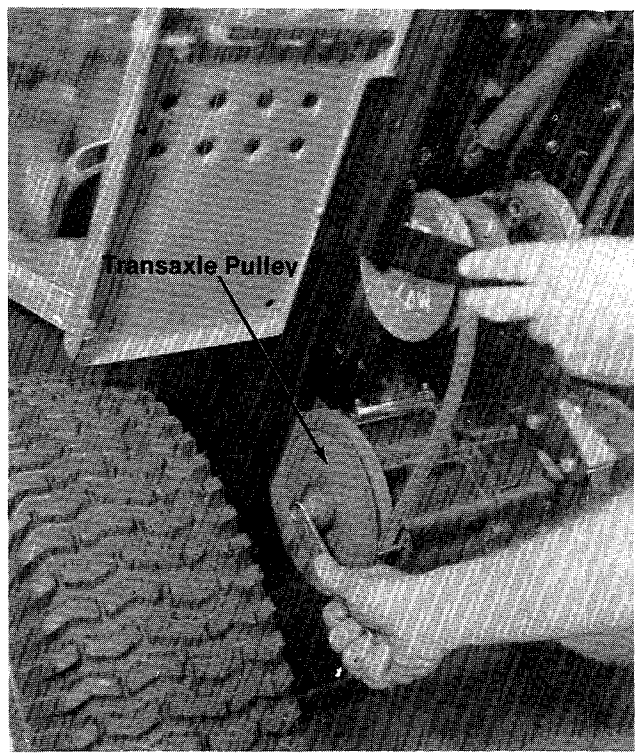


FIGURE 23

5. Take off the idler assembly by removing the center bolt.

NOTE

Be sure the belt clip is reassembled the same way. (See figure 24.)

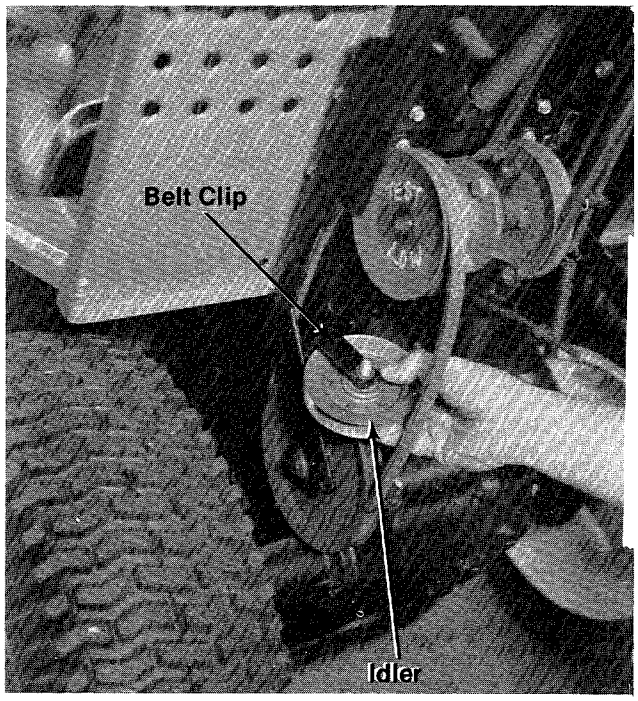


FIGURE 24

6. Remove the center bolt and slide the transaxle pulley off. (See figure 25.)
7. Reassemble in reverse order with a new V-belt.

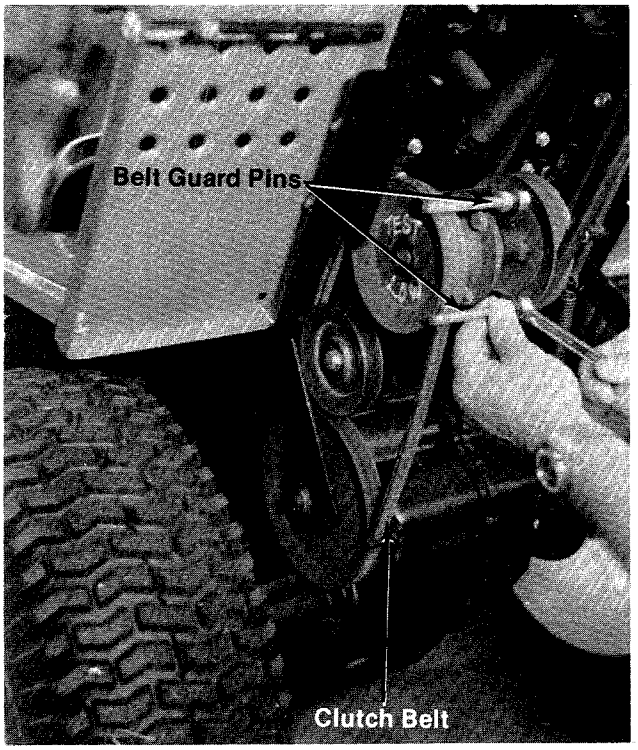


FIGURE 25

Off-Season Storage

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in the carburetor is exhausted.
2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wires and remove the spark plugs from the cylinders. Pour about 2 or 3 tablespoons of engine oil into each cylinder, and then turn the engine over several times to spread out the oil. Replace the spark plugs but do not connect the wires.
4. Clean the engine and the entire tractor thoroughly.
5. Lubricate all lubrication points and wipe the entire machine with an oiled rag in order to protect the surfaces.
6. Battery storage. See page 12.

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions the air cleaner must be serviced after every hour of operation. Refer to figure 18.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

Step 1. Remove two screws and lift off complete air cleaner assembly.

Step 2. Remove screen and spacers from foam element.

Step 3. Remove foam element from air cleaner body.

Step 4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.

b. Wrap foam in cloth and squeeze dry.

c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.

d. Assemble parts, fasten to carburetor with screw.

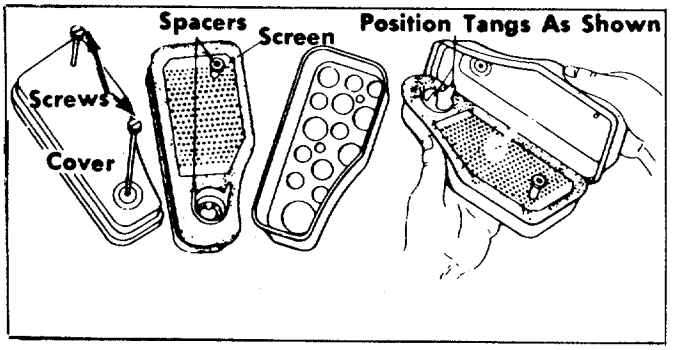


FIGURE 26. AIR CLEANER

Carburetor Adjustments

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

To Adjust Carburetor—Turn needle valve clockwise until it just closes.

CAUTION

Valve may be damaged by turning it in too far.

Now open needle valve 1½ turns counterclockwise. Close idle valve in same manner and open 1½ turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment. (See figure 27.)

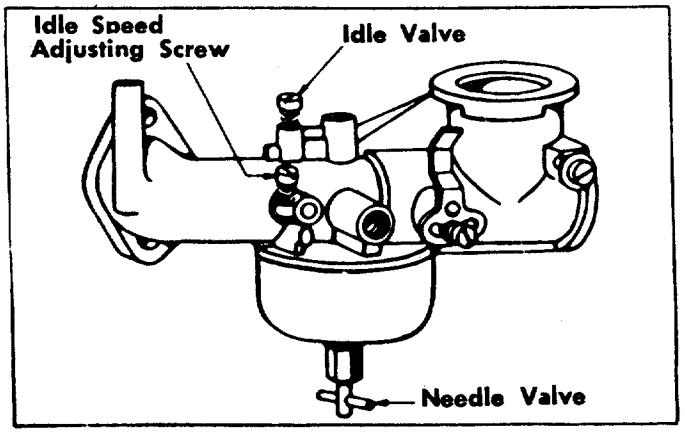


FIGURE 27

To Adjust:

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 28.

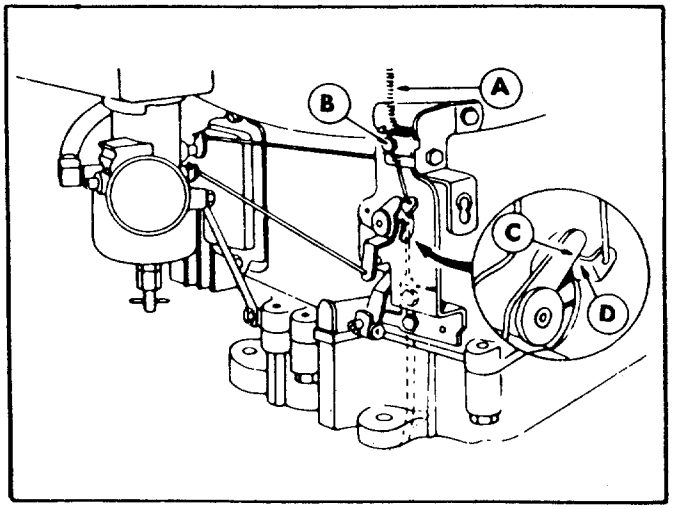


FIGURE 28. CHOKE ADJUSTMENT

MAINTENANCE CUTTING DECK

Lubrication

The blade spindles on the cutting deck are permanently lubricated.

Cutting Blade

The blades may be removed for sharpening or replacement as follows:

1. Remove the large bolt and lockwasher holding the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the crankshaft.
3. Remove the two smaller bolts, lockwashers and nuts holding the blade to the adapter. (See figure 29.)

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge be ground equally to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

The blade can be tested for balance by balancing it on a screwdriver. Remove metal from the heavy side until it balances evenly. (See figure 30.)

NOTE

When replacing the blade, be sure the side of the blade marked "Bottom" or having the part number, is facing down toward the ground when the mower is in the operating position.

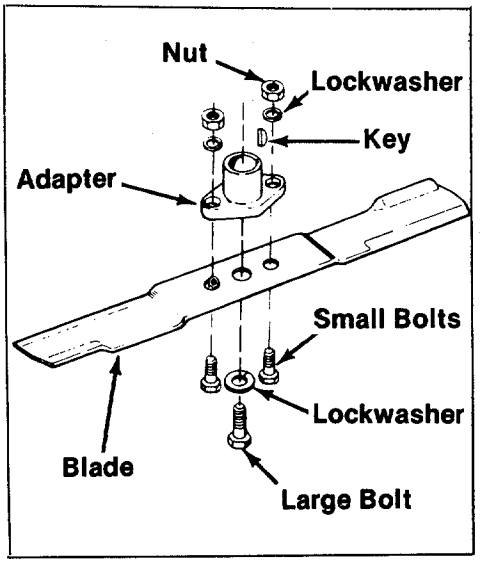


FIGURE 29

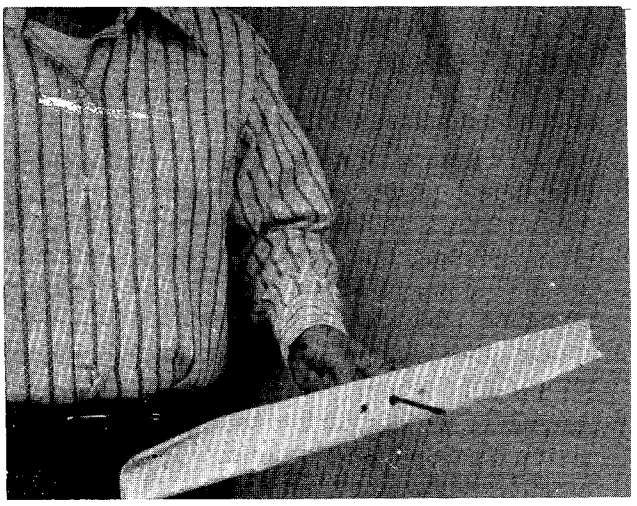


FIGURE 30

Removing the Deck Belt

1. Remove the two hex screws holding the belt guard to the timing belt cover. (See figure 31.)
2. Replace the belt and reassemble.

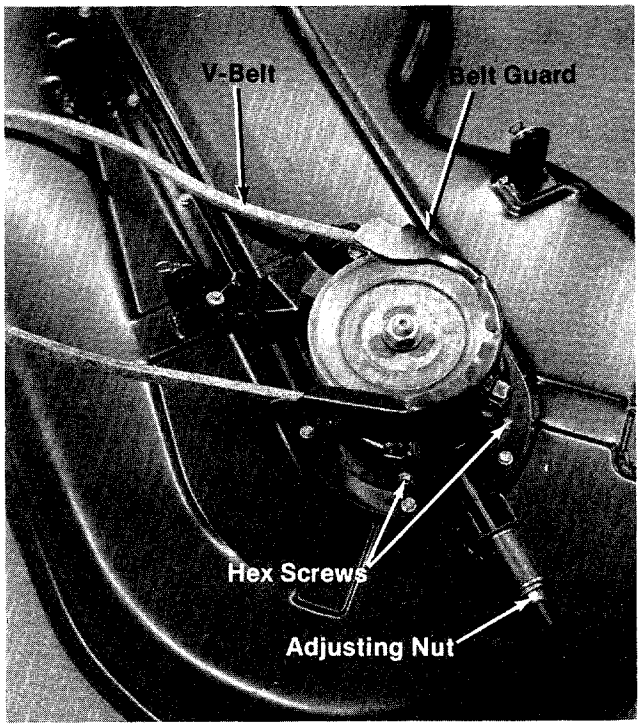


FIGURE 31

Removing the Blade Belt

1. Remove the belt guard and drive pulley. (See figure 31.)
2. Remove the blade belt cover.
3. Loosen the four hub bolts. (See figure 34.)
4. Loosen the tension adjusting nut. (See figure 32.)
5. Remove and replace the blade belt.
6. Reassemble and adjust the belt tension. (See figure 34.)

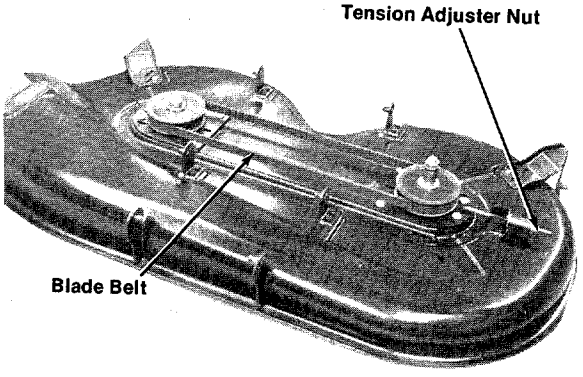


FIGURE 32

Timing the Blades

1. Remove the center blade bolt on either blade.
2. Rotate the blade on the cutting deck and reassemble the other blade at 90° exactly as shown in figure 33.

NOTE

If the blades are not timed it will affect the cut of the grass and the discharge.

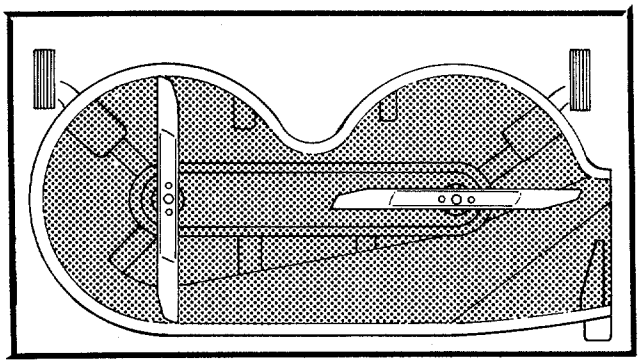


FIGURE 33

Adjusting the Belt Tension

1. Loosen the four spindle nuts on the bottom of the cutting deck. (See figure 34.)
2. Tap the deck with a hammer handle to loosen the washers on the four spindle nuts.
3. Tighten the four spindle nuts.

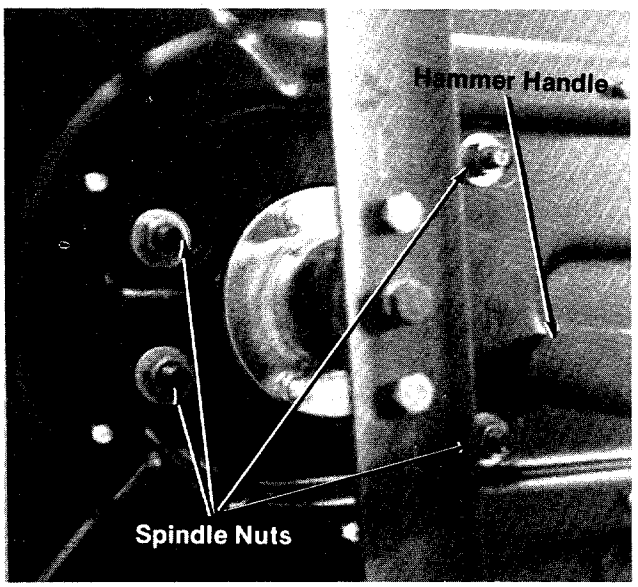


FIGURE 34

NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Check fuel tank for gas	A Fill tank if empty
	B Spark plug lead wire disconnected	
	C Throttle control lever not in the starting position	C Move throttle lever to start position.
	D Faulty spark plug (if either plug fails to fire, the engine will not start)	D Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.
	E Carburetor improperly adjusted. Engine flooded.	E Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures.
	F Old stale gasoline	F Drain and refill with fresh gasoline.
2 Hard starting or loss of power	A Spark plug wire loose	A Connect and tighten spark plug wire.
	B Carburetor improperly adjusted	B Adjust carburetor. See engine section of this manual.
	C Dirty air cleaner	C Clean air cleaner as described in the engine section of this manual.
3 Operation erratic	A Dirt in gas tank	A Remove the dirt and fill tank with fresh gas
	B Dirty air cleaner	B Clean air cleaner as described in the engine section of this manual
	C Water in fuel supply	C Drain contaminated fuel and fill tank with fresh gas.
	D Vent in gas cap plugged	D Clear vent or replace gas cap
	E Carburetor improperly adjusted	E Adjust carburetor. See engine section of this manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow	A Adjust carburetor. See engine section of this manual.
	B Spark plug gap too close	B Adjust to .030"
	C Carburetor idle mixture adjustment improperly set	C Adjust carburetor. See engine section of this manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide.	A Reset gap to .030" or replace spark plug
	B Carburetor improperly adjusted	B Adjust carburetor. See engine section of this manual.
	C Dirty air cleaner	C Clean air cleaner as described in the engine section of this manual.
6 Engine overheats	A Carburetor not adjusted properly	A Adjust carburetor. See engine section of this manual.
	B Air flow restricted	B Remove blower housing and clean as described in the engine section of this manual.
	C Engine oil level low	C Fill crankcase with the proper oil
7 Excessive vibration	A Cutter blade loose or unbalanced	A Tighten blade and adapter. Balance blade.

NOTE: For repairs beyond the minor adjustments listed above, please contact your local service dealer.

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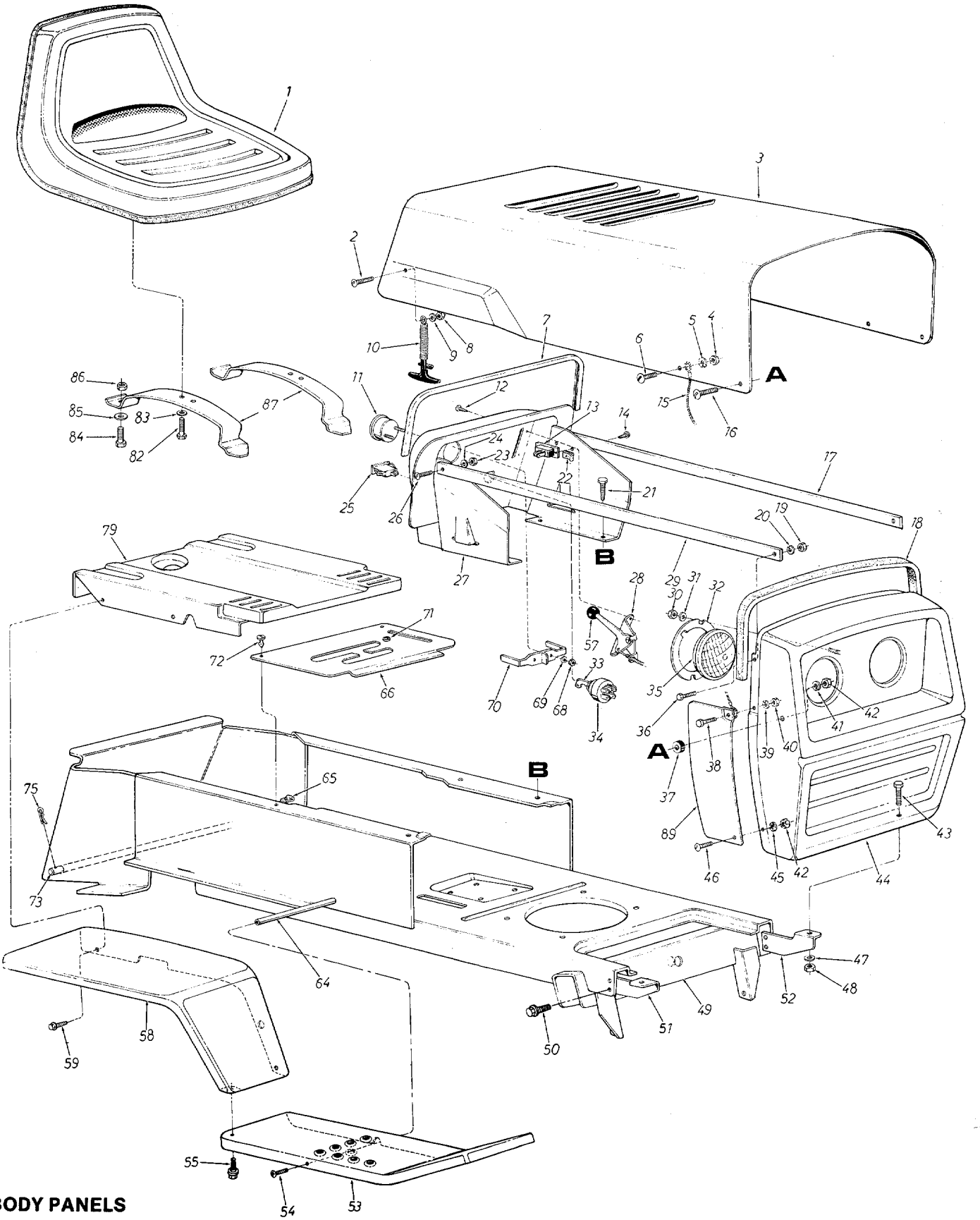
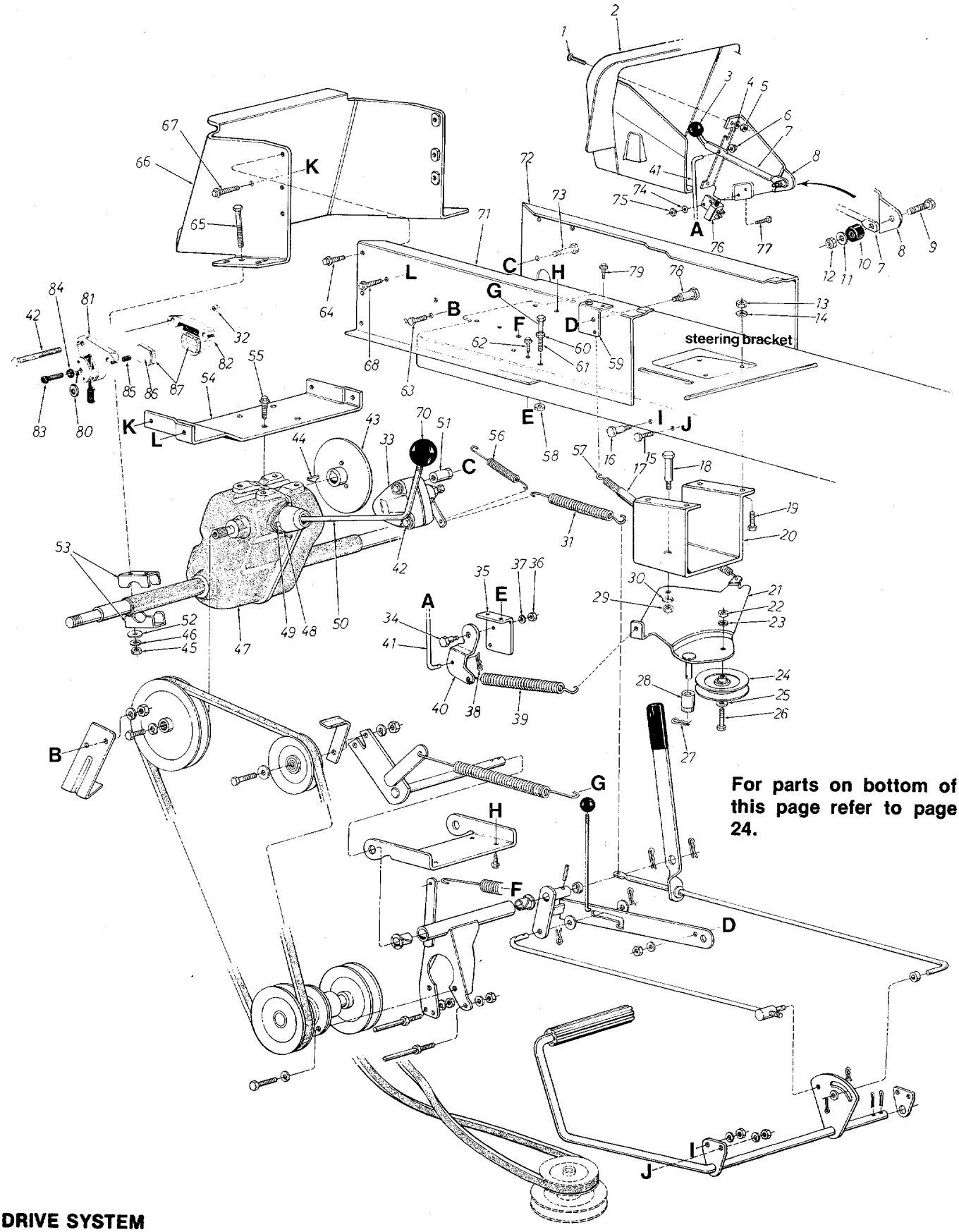


BODY PANELS

PARTS LIST FOR MODEL 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0286		Seat Assembly	N
2	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
3	13808	—462	Hood	N
4	712-0287		Hex Nut ¼-20 Thd.*	
5	736-0329		L-Wash. ¼" Scr.*	
6	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
7	731-0423		Vinyl Molding Strip	N
8	712-0287		Hex Nut ¼-20 Thd.*	
9	736-0329		L-Wash. ¼ Scr.*	
10	723-0296		Hood Latch Ass'y.	
11	725-0119		Ammeter	
12	710-0351		Hex Tap Scr. #10 x .50" Lg.*	
13	725-0459		Circuit Breaker 8 Amp.	
14	710-0351		Hex Tap Scr. #10 x .50" Lg.*	
15	727-0199		Hood Stop	
16	710-0255		Truss Mach. Scr. ¼-20 x .75" Lg.*	
17	13807		Grille Positioning Rod	N
18	722-0137		PVC Foam Strip ½ x 1.00" x 12.5" Lg.	N
19	712-0287		Hex Nut ¼-20 Thd.*	
20	736-0329		L-Wash. ¼" Scr.*	
21	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
22	712-0344		Speed Nut #10 Z	
23	712-0287		Hex Nut ¼-20 Thd.*	
24	736-0329		L-Wash. ¼" Scr.*	
25	725-0634		Light Switch	N
26	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
27	13843		Dash Panel Ass'y.	N
28	746-0335		Throttle Control Comp.	N
29	13807		Grille Positioning Rod	N
30	712-0287		Hex Nut ¼-20 Thd.*	
31	736-0329		L-Wash. ¼ Scr.*	
32	09960		Head Lamp Retainer	
33	725-0201		Ignition Key	
34	725-0267		Ignition Switch	
35	725-0222		Head Lamp	
36	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
37	735-0126		Rubber Wash. .330 I.D. x .87 O.D. x .32 Thk.	
38	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
39	736-0329		L-Wash. ¼" Scr.*	
40	712-0287		Hex Nut ¼-20 Thd.*	
41	736-0329		L-Wash. ¼" Scr.*	
42	712-0287		Hex Nut ¼-20 Thd.*	
43	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
44	13801	—462	Grille Ass'y.	N
45	736-0329		L-Wash. ¼" Scr.*	
46	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
47	736-0119		L-Wash. 5/16" Scr.*	
48	712-0267		Hex Nut 5/16-18 Thd.*	
49	13820		Lower Frame Ass'y.	N
50	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
51	13862		Grille Mount Brkt.—R.H.	N
52	13863		Grille Mount Brkt.—L.H.	N
53	13828	—452	Running Board—R.H.	N
	13827	—452	Running Board—L.H. (Not Shown)	N
54	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*	
55	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
57	720-0166		Knob (Throttle Control)	
58	13810	—462	Fender Ass'y.—R.H.	N
	13809	—462	Fender Ass'y.—L.H. (Not Shown)	N
59	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
64	738-0435		Running Board Rod	N
65	—		Part of Ref. No. 72	
66	13946	—452	Transmission Cover	N
68	—		Part of Ref. No. 11	
69	—		Part of Ref. No. 11	
70	—		Part of Ref. No. 11	
71	731-0405		Snap Bushing	
72	726-0167		¼-Turn Stud	
73	738-0401		Hitch Rod	
75	714-0149		Internal Cotter Pin	
79	13814		Seat Plate	N
82	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
83	736-0119		L-Wash. 5/16" Scr.*	
84	710-0689		Hex Scr. Nylon Scr. ½-13 x .75" Lg.	
85	736-0192		Fl-Wash. .50" I.D. x 1.00" O.D. x .090	
86	712-0206		Hex Nut ½-13 Thd.*	
87	13123		Seat Spring	
89	13864	—462	Grille Side Panel—R.H.	N
	13235	—462	Grille Side Panel—L.H. (Not Shown)	

149-810A



DRIVE SYSTEM

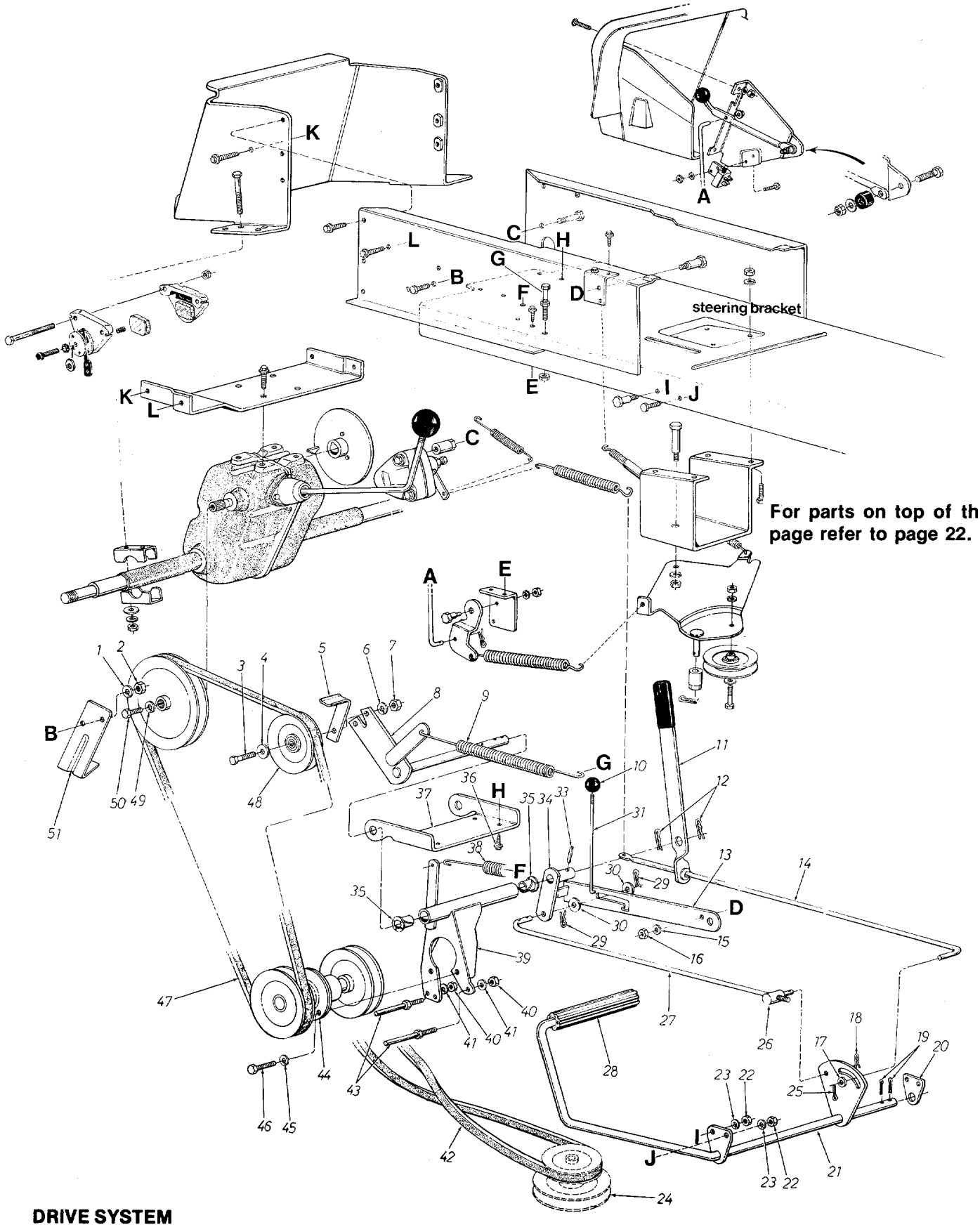
PARTS LIST FOR MODEL 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
2	13843		Dash Panel Ass'y.	N
3	720-0165		Knob—Blade Clutch	
4	736-0329		L-Wash. ¼" Scr.*	
5	712-0287		Hex Nut ¼-20 Thd.*	
6	726-0106		Push Cap ¼" Rod	
7	747-0157		Blade Clutch Lever	
8	13950		Deck Clutch Control Brkt.	N
9	710-0106		Hex Scr. ¼-20 x 1.25" Lg.*	
10	735-0126		Rubber Wash. .330" I.D. x .87" O.D.	
11	736-0173		Fl-Wash. ¼" I.D. x .75" O.D. x .057	
12	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
13	712-0267		Hex Nut 5/16-18 Thd.*	
14	736-0119		L-Wash. 5/16" Scr.*	
15	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
16	738-0234		Shld. Scr. ½" Dia. x .395" Lg. (3/8-16)	
17	731-0483		Convoluted Conduit .50" I.D. x .4" Lg.	
18	738-0155		Shld. Scr. 7/16 Dia. x .16" (5/16-18)	
19	710-0376		Hex Scr. 5/16-18 x 1.00" Lg.*	
20	13826		Idler Mtg. Brkt.—Deck	N
21	13893		Idler Brkt. Ass'y.	N
22	712-0798		Hex Nut 3/8-16 Thd.*	
23	736-0169		L-Wash. 3/8" Scr.*	
24	756-0293		4"-"V" Idler Pulley	
25	736-0300		Fl-Wash. 3/8" I.D.	
26	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
27	714-0104		Hairpin Cotter 5/16" O.D.	
28	748-0278		Spacer	
29	712-0267		Hex Nut 5/16-18 Thd.*	
30	736-0119		L-Wash. 5/16" Scr.*	
31	732-0260		Ext. Spring—Brake Rod	
32	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
33	761-0178		Disc Brake Caliper Ass'y.	N
34	738-0155		Shld. Scr. 7/16" Dia. x .16" Lg. (5/16-18)	
35	13833		Parking Brake Cam Mtg. Brkt.	N
36	712-0267		Hex Nut 5/16-18 Thd.*	
37	736-0119		L-Wash. 5/16" Scr.*	
38	714-0104		Hairpin Cotter 5/16" Dia.	
39	732-0262		Ext. Spring—Deck Control	
40	13887		Deck Control Pivot Brkt.	N
41	747-0307		Deck Control Rod	N
42	710-0937		Hex Scr. 3/8-16 x 2.50" Lg.*	
43	761-0142		Hub and Disc. Ass'y. (For Brake)	
44	714-0137		Hi-Pro Key 3/16 x 3/4" Lg.	
45	712-0798		Hex Nut 3/8-16 Thd.*	
46	736-0169		L-Wash. 3/8" Scr.*	
47	—		Transaxle (See Page 32 for Breakdown)	
48	—		Part of Ref. No. 47	
49	—		Part of Ref. No. 47	
50	—		Part of Ref. No. 47	
51	748-0276		Spacer	
52	736-0258		Fl-Wash. .390" I.D. x 1.00" O.D. x .125	
53	13892		Rear Axle Brkt.	N
54	13835		Axle Support Brkt.	N
55	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
56	732-0157		Ext. Spring—Brake Return	
57	732-0308		Ext. Spring—Deck Idler Return	
58	712-0267		Hex Nut 5/16-18 Thd.*	
59	13833		Parking Brake Cam Mtg. Brkt.	N
60	712-0267		Hex Nut 5/16-18 Thd.*	
61	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
62	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
63	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
64	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
65	710-0344		Hex Scr. 3/8-16 x 1.50" Lg.*	
66	13813		Hitch Plate	N
67	710-0600		Hex Thd. Rolling 5/16-24 x .50" Lg.	
68	710-0600		Hex Thd. Rolling 5/16-24 x .50" Lg.	
70	720-0165		Knob—Transaxle	
71	13848		Side Panel Upper Frame—L.H.	N
72	13847		Side Panel Upper Frame—R.H.	N
73	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
74	736-0147		Ext. L-Wash. #10 Scr.*	
75	712-0121		Hex Nut #10-24 Thd.*	
76	725-0465		Safety Switch (Deck)	
77	710-0473		Truss Mach. Scr. #10-24 x .50" Lg.*	
78	738-0155		Shld. Scr. 7/16" Dia. x .16" Lg. (5/16-18)	
79	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
80	HU-20-9764		Washer	
81	HU-37-70066		Housing with Lever and Pin	
82	HU-16-13807		Anvil	
83	HU-39-13775		Pin, Adjuster	
84	HU-37-13818		Nut	
85	HU-39-13774		Pin, Actuator	
86	HU-25-13808		Backing Plate	
87	HU-24-13772		Lining	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size shown on parts list.

(462—Red Flake)
When ordering parts if color is important, use the appropriate color code listed above. (e.g. Red Flake Finish, 12369—462).)

149-810A



For parts on top of this page refer to page 22.

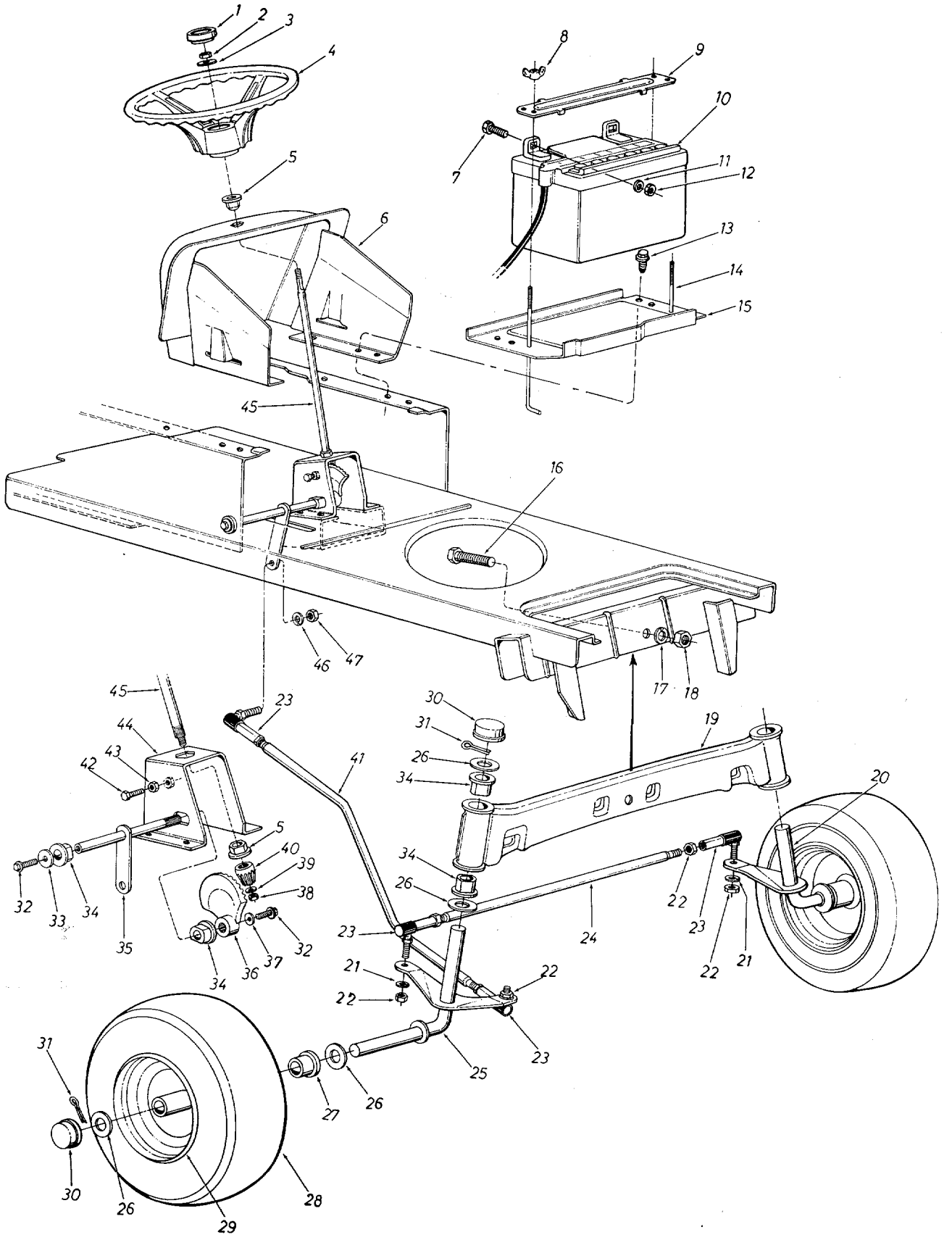
DRIVE SYSTEM

PARTS LIST FOR MODEL 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	736-0169		L-Wash. 3/8" Scr.*	
2	712-0798		Hex Nut 3/8-16 Thd.*	
3	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
4	736-0300		Fl-Wash. 3/8" I.D.	
5	13819		Belt Guard (Clutch Idler)	N
6	736-0169		L-Wash. 3/8" Scr.*	
7	712-0798		Hex Nut 3/8-16 Thd.*	
8	13815		Clutch Brkt. Ass'y.	N
9	732-0262		Ext. Spring (Drive Idler)	
10	720-0166		Knob (Parking Brake)	
11	13872		Brake Hand Lever	N
12	714-0117		Hairpin Cotter 5/8" Dia.	
13	13832		Parking Brake Cam	N
14	747-0304		Brake Rod	N
15	736-0275		Fl-Wash. 5/16" Scr.	
16	712-0267		Hex Nut 5/16-18 Thd.*	
17	736-0275		Fl-Wash. 5/16" Scr.	
18	714-0145		Hairpin Cotter 3/8" Rod	
19	714-0474		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
20	13859		Clutch Rod Brg. Brkt.	N
21	13856		Clutch—Brake Pedal Ass'y.	N
22	712-0798		Hex Nut 3/8-16 Thd.*	
23	736-0169		L-Wash. 3/8" Scr.*	
24	756-0322		Two Step Engine Pulley	
25	714-0115		Cotter Pin 3/32" Dia. x .75" Lg.*	
26	711-0198		Pivot Bushing	
27	747-0306		Brake Cam Rod	N
28	735-0196		Foot Pad	N
29	714-0145		Hairpin Cotter 3/8" Rod	
30	736-0101		Fl-Wash. 3/8" I.D. x 1.00" O.D. x .030	
31	747-0300		Parking Brake Link	N
33	715-0108		Spring Pin Spiral ¼" Dia. x 1.00" Lg.	
34	13871		Clutch—Idler Horn Ass'y.	N
35	741-0295		Nyliner 5/8" I.D. x .88" Lg.	N
36	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
37	13822		Idler Mtg. Brkt.—Drive	N
38	732-0153		Ext. Spring (Jack Shaft)	
39	13823		Jack Shaft Mtg. Brkt. Ass'y.	N
40	712-0798		Hex Nut 3/8-16 Thd.*	
41	736-0169		L-Wash. 3/8" Scr.*	
42	754-0245		"V"-Belt ½" x 59" Lg. (Kevlar)	N
43	711-0696		Stud 3/8-16 x 3.62" Lg.	
44	756-0324		Jack Shaft Ass'y.	N
45	736-0119		L-Wash. 5/18" Scr.*	
46	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
47	754-0243		"V"-Belt ½" x 46" Lg. (Kevlar)	
48	756-0293		4" "V"-Idler Pulley	
49	736-0169		L-Wash. 3/8" Scr.*	
50	711-0180		Hex Scr. 3/8-24 x .75" Lg.*	
51	13841		Belt Guard	
52	756-0333		7" "V"-Pulley	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

149-810A



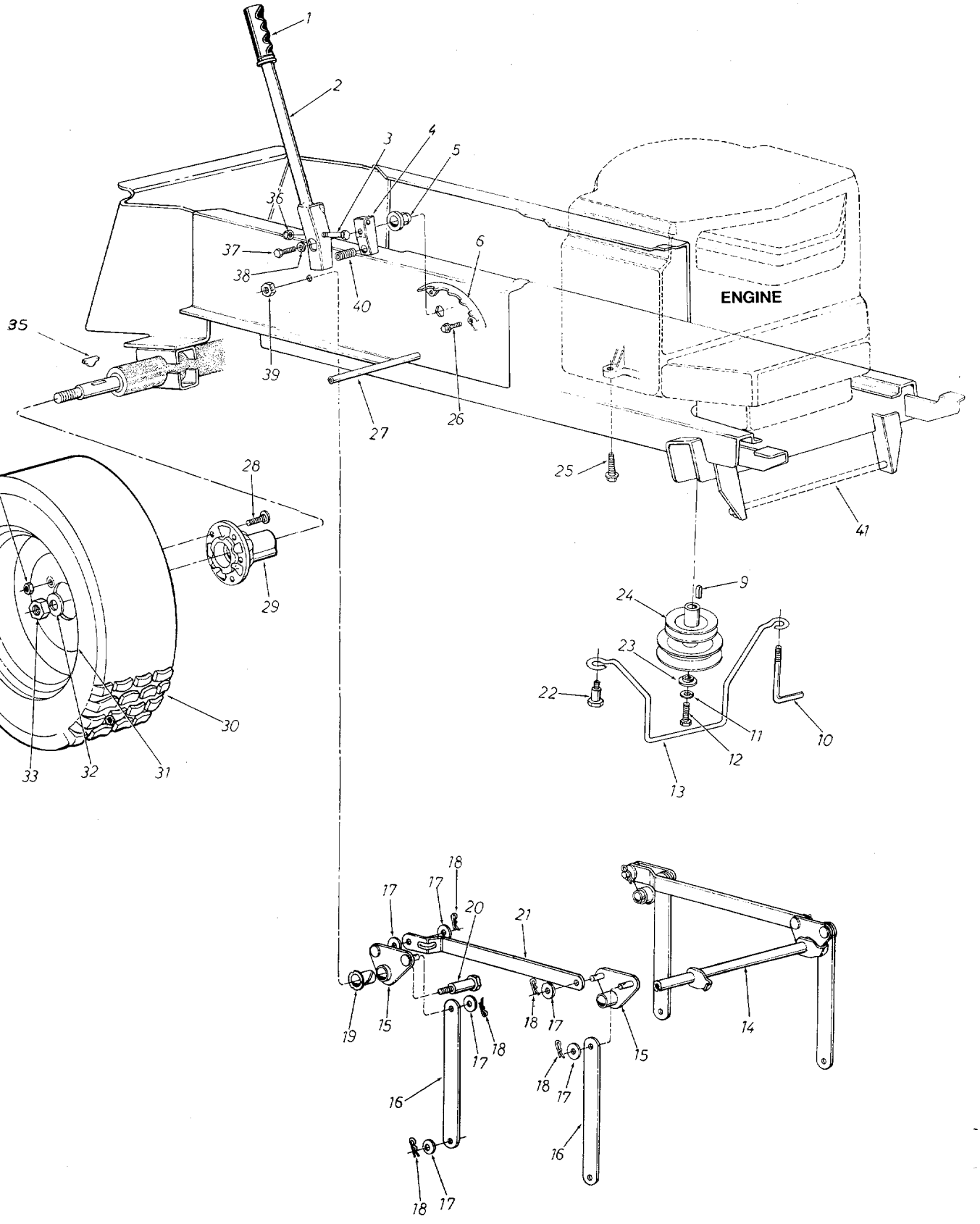
STEERING

PARTS LIST FOR MODEL 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0275		Fl-Wash. 5/16" I.D. x 1.00" O.D. x .057	
4	731-0356		Steering Wheel	
5	741-0225		Plastic Hex Bearing 5/8" I.D.	
6	13843		Dash Panel Ass'y.	N
7	710-0258		Hex Scr. ¼-20 x .62" Lg.	
8	712-0113		Wing Nut Plastic ¼-20 Thd.	
9	13959		Battery Hold Down	N
10	725-0661		12-V Battery	N
11	736-0329		L-Wash. ¼" Scr.*	
12	712-0287		Hex Nut ¼-20 Thd.*	
13	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
14	711-0222		Battery Hold Down Rod	
15	13379		Battery Plate	
16	710-0533		Hex Scr. 5/8-18 x 2.50" Lg.*	
17	736-0158		L-Wash. 5/8" Scr.*	
18	712-0923		Hex Cent. L-Nut 5/8-18 Thd.	
19	13865		Front Pivot Bar Ass'y.	N
20	13839		Front Axle Ass'y.—L.H.	N
21	736-0169		L-Wash. 3/8" Scr.*	
22	712-0241		Hex Nut 3/8-24 Thd.*	
23	736-0156		Ball Joint Ass'y.	
24	747-0301		Tie Rod	N
25	13838		Front Axle Ass'y.—R.H.	N
26	736-0316		Fl-Wash. .780 I.D. x 1.59 O.D.	
	741-0293		Flange Bearing	
28	734-0960		Front Wheel Ass'y. Comp.	N
29	734-0961		Front Wheel Rim Only	
	734-0498		Front Wheel Tire Only 15 x 6.00	
	734-0255		Air Valve	
30	731-0484		Dust Cover	
31	714-0121		Cotter Pin 5/32" Dia. x 1.00" Lg.*	
32	710-0180		Hex Scr. 3/8-24 x .75" Lg. Grade 5	
33	736-0133		Fl-Wash. 3/8 I.D. x 1.25 O.D. x .090	
34	741-0199		Flange Double "D" Brg. .753 I.D.	
35	12749		Steering Arm Shaft Ass'y.	
36	748-0236		Side Gear—Steering	
37	736-0105		Bell-Wash. 3/8" I.D.	
38	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
39	736-0264		Fl-Wash. 5/16" I.D. x 62 O.D. x .059	
40	748-0237		Pinion Gear—Steering	
41	747-0302		Drag Link	N
42	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.	
43	712-0798		Hex Nut 3/8-16 Thd.*	
44	12850		Steering Gear Sup. Ass'y.	
45	738-0317		Steering Shaft	
46	736-0169		L-Wash. 3/8" Scr.*	
47	712-0241		Hex Nut 3/8-24 Thd.*	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

149-810A



DECK LINKAGE

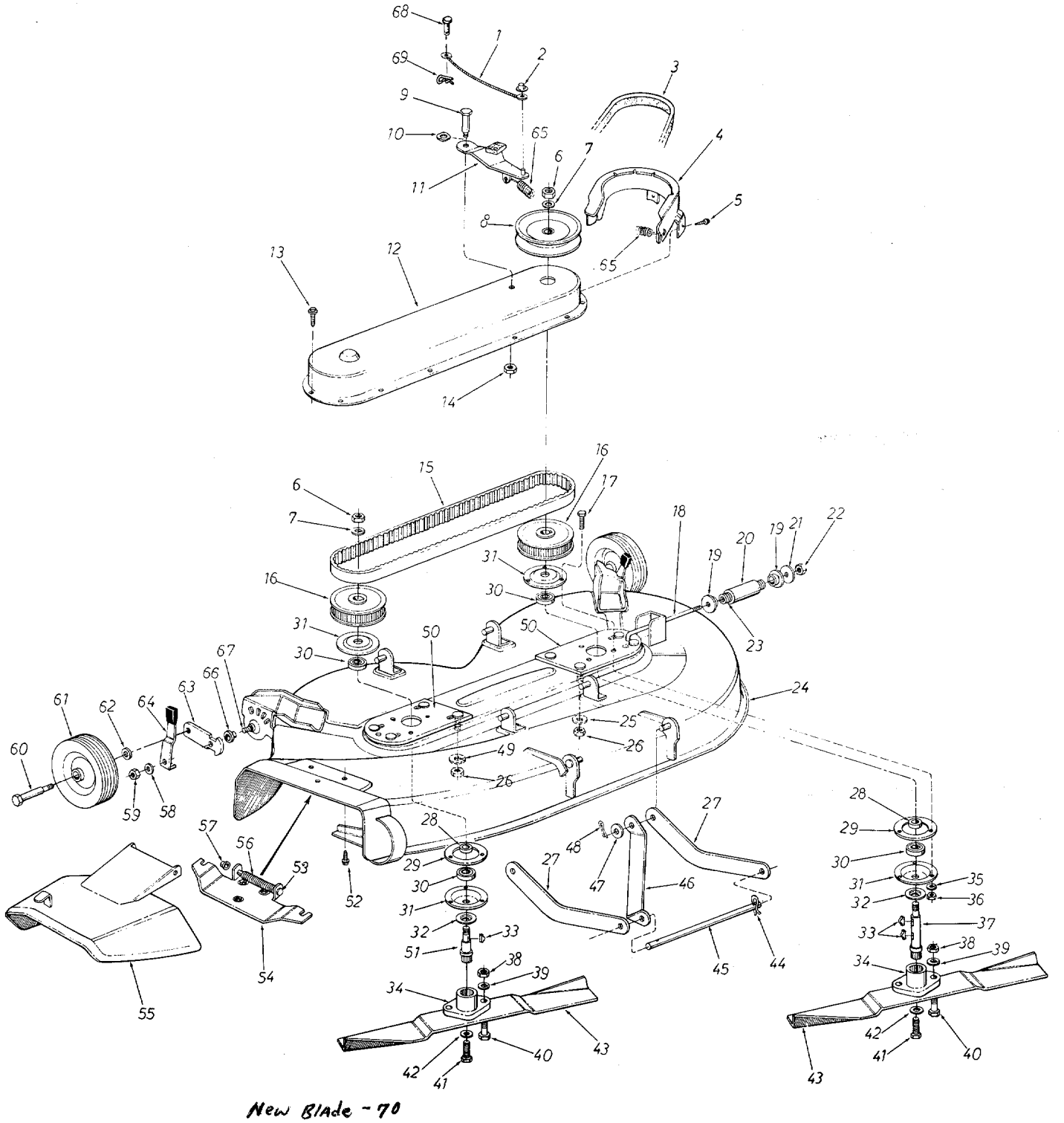
PARTS LIST FOR MODEL 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0157		Grip	
2	13884		Lift Handle Ass'y.	N
3	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
4	748-0274		Lift Shaft Drive	N
5	741-0225		Plastic Hex Brg. 5/8" I.D.	
6	13873		Index Brkt. Deck Lift	N
9	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
10	747-0216		Belt Guard Lock Pin	
11	736-0169		L-Wash. 3/8" Scr.*	
12	710-0459		Hex Scr. 3/8-24 x 1.50" Lg.	
13	747-0299		Belt Guard	N
14	13889		Lift Shaft Ass'y.	N
15	13895		Lift Pivot Brkt. Ass'y.	N
16	13791		Link (Deck)	N
17	736-0192		Fl-Wash. 1/2" I.D. x 1.00" O.D. x .090	
18	714-0101		Hairpin Cotter 1/2" Dia.	
19	741-0295		Nyliner 5/8" I.D. x .88" Lg.	N
20	738-0445		Shld Scr. 5/8" Dia. x .96" Lg. 3/8-16	
21	13790		Connecting Link	N
22	738-0296		Shld. Scr. .437 Dia. x .268 Lg. 5/16-18	
23	711-0242		Spacer	N
24	756-0322		Two-Step Engine Pulley	
25	710-0502		Hex Wash. Hd. Scr. 3/8-16 x 1.25" Lg.	
26	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
27	738-0435		Running Board Rod	N
28	710-0617		Rd. Hd. Ribbed Neck Scr. 3/8-24 x 1.00" Lg. (Service Only)	
29	719-0236		Rear Wheel Hub Ass'y. with Studs	
30	734-0966		Rear Wheel Ass'y. Comp.	N
31	734-0785		Rear Wheel Rim Only	
	734-0967		Rear Wheel Tire Only 22 x 7.50	N
32	748-0160		Spacer	
33	712-0288		Hex Ins. L-Nut 3/4-16 Thd.	
34	712-0193		Hex Cone Nut 3/8-24 Thd.	
35	714-0146		#27 Woodruff Key 1/4 x 2.12 H.T.	
36	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
37	710-0237		Hex Scr. 5/16-24 x .62" Lg.*	
38	736-0119		L-Wash. 5/16" Scr.*	
39	712-0181		Hex Top L-Nut 3/8-16 Thd.	
40	732-0369		Compression Spring	
41	738-0392		Deck Connecting Rod	N

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."

199-935A
(OPTIONAL 44" DECK)



CUTTING DECK

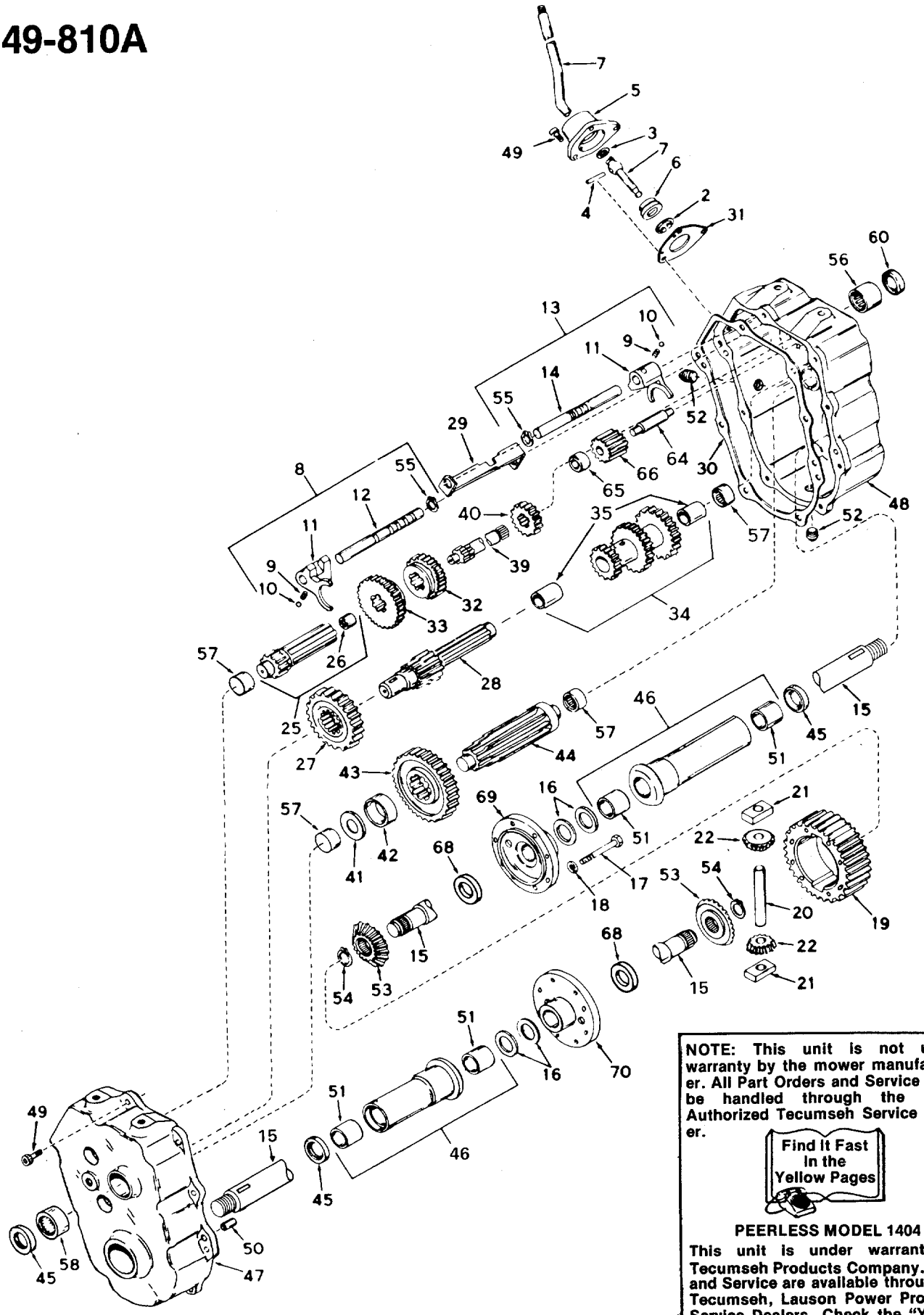
OPTIONAL

PARTS LIST FOR MODEL 199-935A 44" DECK

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	746-0237		Brake Cable Ass'y. (Deck)	
2	726-0106		Push Cap ¼" Stud	
3	754-0230		"V"-Belt ½" x 56" Lg.	
4	13910		Belt Guard (Deck)	N
5	710-0599		Hex Thd. Rolling ¼-20 x .50" Lg.	
6	712-0261		Hex Jam L-Nut 5/8-11 Thd.	
7	736-0317		Belle. Wash. 5/8" I.D. x 1.25 O.D.	
8	756-0329		Deck Drive "V"-Pulley	N
9	738-0140		Shld. Scr. .437" Dia. x .180" Lg. 5/16-18	
10	736-0141		Wave Wash. 7/16" Scr.	
11	13908		Spindle Brake Arm Ass'y.	N
12	13870		Belt Cover	N
13	710-0653		Hex Thd. Rolling Scr. ¼-20 x .38" Lg.	
14	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
15	754-0246		Timing Belt #1440-8M-20	N
16	756-0334		Sprocket Pulley Ass'y.	N
17	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
18	710-0754		Adjustment Scr.	N
19	738-0347		Shld. Spacer (Special)	
20	750-0455		Spacer—Adj. Scr.	N
21	736-0231		Fl-Wash. 5/16" I.D. x 1.125" O.D.	
22	712-0267		Hex Nut 5/16-18 Thd.*	
23	732-0377		Compression Spring	N
24	13861		44" Deck Ass'y.	N
25	736-0105		Belleville Wash. 3/8" I.D.	
26	712-0241		Hex Nut 3/8-24 Thd.*	
27	13866		Deck Stabilizer	N
28	750-0456		Spacer	
29	09164		Reinforcement Plate	
30	741-0919		Ball Bearing	
31	08253		Bearing Housing	
32	13703		Bearing Shield	
33	714-0126		#9 Hi-Pro Key 3/16 x 3/4" Dia.	
34	748-0235		Blade Adapter 3/4" Spindle	
35	736-0119		L-Wash. 5/16" Scr.*	
36	712-0267		Hex Nut 5/16-18 Thd.*	
37	738-0436		Blade Spindle—L.H.	N
38	712-0123		Hex Nut 5/16-24 Thd.*	
39	736-0119		L-Wash 5/16" Scr.*	
40	710-0117		Hex Scr. 5/16-24 x 1.00" Lg. Grade 5	
41	710-0180		Hex Scr. 3/8-24 x .75" Lg. Grade 5	
42	736-0217		L-Wash. 3/8" Scr. H.D.	
43	742-0125		22" Blade	
44	714-0149		Hairpin Cotter	
45	738-0392		Deck Connecting Rod	N
46	13867		Diagonal Brace	N
47	736-0192		Fl-Wash. ½" I.D. x 1.00" O.D. x .090	
48	714-0111		Cotter Pin 3/32" Dia. x 1.00" Lg.*	
49	736-0105		Belle. Wash. 3/8" Scr.	
50	13868		Spindle Plate Ass'y.	N
51	738-0437		Blade Spindle—R.H.	N
52	710-0599		Hex Wash. Hd. Self Tap Scr. ¼-20 x .50" Lg.	
53	711-0571		Hinge Pin	
54	11396		Grass Catcher Adapter Plate	
55	11633		Chute Cover Ass'y.	
56	732-0261		Torsion Spring	
57	726-0106		Push Nut ¼" Rod	
58	736-0219		Belleville Wash.	
59	712-0214		Hex Nut 3/8-24 Thd.*	
60	738-0373		Shld. Scr. .498 Dia. x 1.53" Lg. 3/8-16	
61	734-0965		Wheel Ass'y. Comp. 6" (Deck)	N
62	736-0105		Belleville Wash. 3/8" I.D.	
63	10937		Wheel Pivot Bar	
64	10949		Spring Lever Ass'y. w/Knob	
65	732-0265		Extension Spring	
66	748-0279		Shld. Spacer	
67	710-0191		Hex Scr. 3/8-24 x 1.25" Lg. Grade 5	
68	711-0701		Clevis Pin 1/4" Dia. x 1.00" Lg.	
69	714-0100		Hairpin Cotter 1/4" Dia.	
70	742-0205		22.5" Blade (Problem leaving uncut strips)	N

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

149-810A



TRANSAXLE MODEL 1404

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

Find It Fast In the Yellow Pages

PEERLESS MODEL 1404

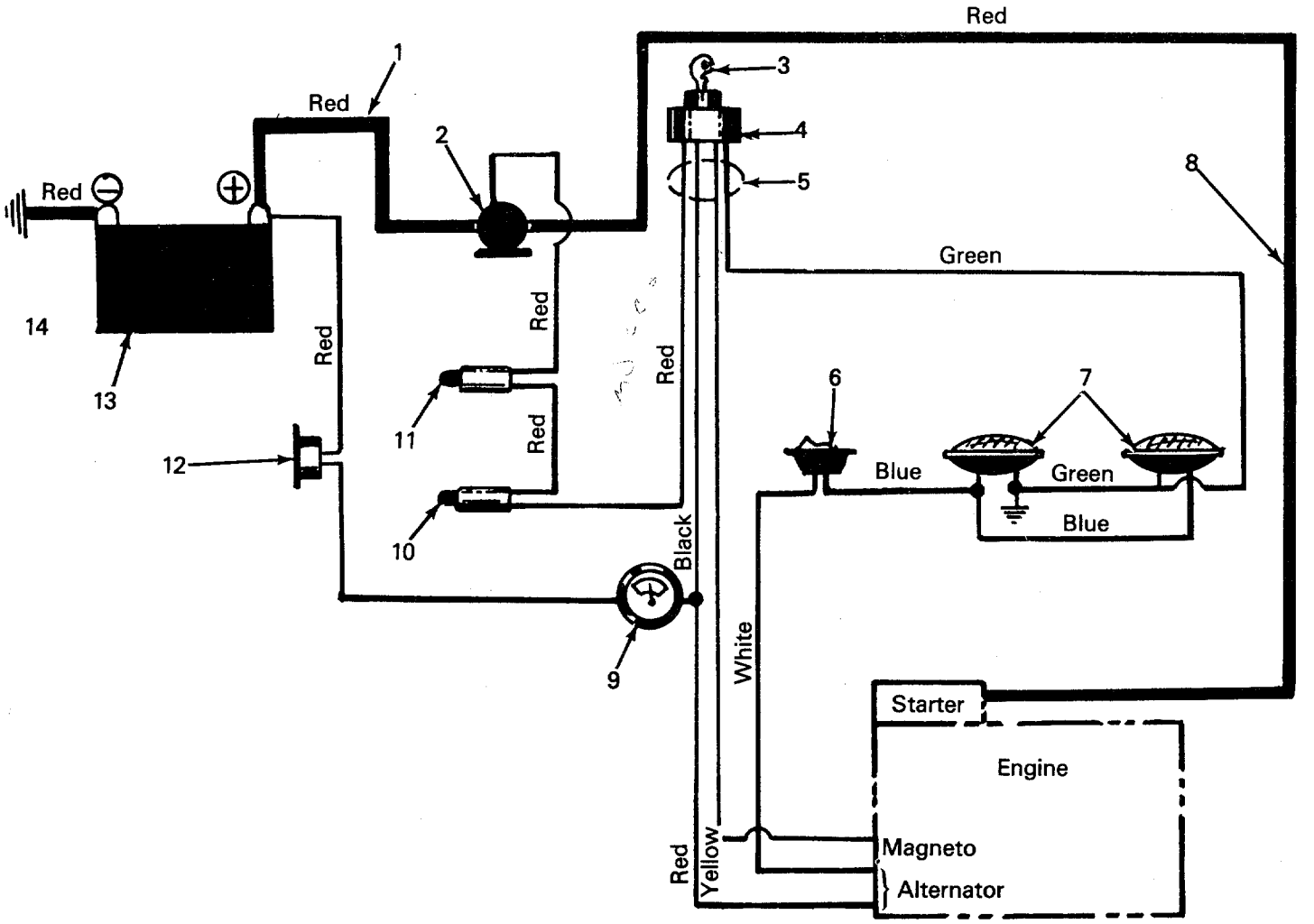
This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

PARTS LIST FOR TRANSAXLE MODEL NO. 1404 3-SPEED

REF. NO.	PART NO.	DESCRIPTION
2	PE-792016	Ring, Snap
3	PE-792001	Ring, Quad
4	PE-792049	Pin, Drive
5	PE-784088	Housing, Shift Lever
6	PE-784094	Keeper, Shift Lever
7	PE-784306	Lever, Shift
8	PE-784056	Rod Ass'y., Shift (Incl. Nos. 9 thru 12)
9	PE-792003	Spring
10	PE-792004	Ball, Steel
11	PE-784004	Fork, Shifter
12	PE-784057	Rod, Shifter
13	PE-784054	Rod Ass'y. Shift (Incl. Nos. 9, 10, 11, 14 and 55)
14	PE-784055	Rod, Shifter
15	PE-774403	Axle
16	PE-780042	Washer, Thrust
17	PE-792020	Screw, Hex Hd., 1/4-20 x 2-1/4
18	PE-792006	Lockwasher, 1/4"
19	PE-778033A	Gear, Ring
20	PE-786019	Pin, Drive
21	PE-786027	Block, Drive
22	PE-778014	Pinion, Bevel
25	PE-776014	Shaft and Bearing Ass'y., Shifter (Incl. No. 26)
26	PE-780018	Bearing
27	PE-778037	Gear, Idler
28	PE-776123	Shaft and Gear, Brake
29	PE-784074	Stop, Shifter
30	PE-788026	Gasket, Case to Cover
31	PE-788003	Gasket, Shift Lever Housing
32	PE-778019A	Gear, Shifting
33	PE-778020	Gear, Shifting
34	PE-778035A	Gear Cluster Ass'y. (Incl. No. 35)
35	PE-780053	Bushing
39	PE-776192	Shaft, Input
40	PE-778024A	Spur Gear, Input Shaft
41	PE-780001	Washer
42	PE-786017	Spacer
43	PE-778036	Gear, Output
44	PE-778041	Pinion, Output
45	PE-788008	Seal, Oil
46	PE-782041	Housing and Bushing Ass'y., Axle (Incl. No. 51)
47	PE-772045	Cover Ass'y., Transaxle (Incl. Nos. 57 and 58)
48	PE-770033	Case Ass'y., Transaxle (Incl. Nos. 56 and 57)
49	PE-792007	Screw, Flanged Hex Hd., 1/4-20 x 3/4
50	PE-786026	Pin, Dowel
51	PE-780054	Bushing
52	PE-792010	Plug, Pipe
53	PE-778039	Gear, Bevel
54	PE-792018	Ring, Snap
55	PE-792017	Ring, Snap
56	PE-780011	Bearing
57	PE-780013	Bearing
58	PE-780055	Bearing
60	PE-788009	Seal, Oil
64	PE-776008	Shaft, Reverse Idler
65	PE-786008	Spacer, Reverse Idler
66	PE-778016	Idler, Reverse
68	PE-780107	Washer
69	PE-774029A	Carrier, Differential
70	PE-774028A	Carrier, Differential

*Shift lever is not shipped with transaxle. Order separate.

149-810A



PARTS LIST FOR ELECTRICAL SYSTEM 149-810A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0564		Electric Cable	
2	725-0530		Solenoid	
3	725-0201		Ignition Key	
4	725-0267		Ignition Switch	
5	725-0667		Wire Harness	N
6	725-0634		Light Switch	N
7	725-0222		Headlight	
8	725-0564		Electric Cable	
9	725-0119		Ammeter	
10	725-0465		Safety Switch	
11	725-0268		Safety Switch—Black N.O.	
12	725-0459		Circuit Breaker	
13	725-0661		12 V-Battery	N
14	725-0563		Electric Cable	

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts number, description of parts and the quantity of each part required.

ALABAMA
BIRMINGHAM
Auto Electric & Carburetor Co. . . 2625 4th Ave. S. 35233
ARKANSAS
NORTH LITTLE ROCK
Sutton's Lawn Mower Shop . . . . Rt. 4 Box 368 72117
FORT SMITH
Mity Mite Motors, Inc. . . . . 2515 Towson Ave. 72901
CALIFORNIA
PORTERVILLE
Billious . . . . . 75 North D Street 93257
SAN BERNARDINO
Lawn Mower Supply Co. . . . . 25608 E. Baseline 92410
SAN FRANCISCO
J.W. Jewett Co. . . . . 981 Folsom St. 94107
SACRAMENTO
Luttig & Severson . . . . . 2030 28th St. 95818
COLORADO
DENVER
South Denver Lawn Equip. . . . . 527 West Evans 80223
FLORIDA
JACKSONVILLE
Radco Distributors . . . . . 2403 Market St. 32206
CORAL GABLES
Moz-All of Florida, Inc. . . . . 365 Greco Ave. 33146
GEORGIA
EAST POINT
East Point Cycle & Key . . . . . 2834 Church St. 30344
ILLINOIS
LYONS
Keen Edge Co. . . . . 8615 Ogden Ave. 60534
INDIANA
ELKHART
Parts & Sales Inc. . . . . 2101 Industrial Pkwy. . 46514
IOWA
DUBUQUE
Power Lawn & Garden Equip. . . . 2551 J.F. Kennedy . . . 52001
LOUISIANA
NEW ORLEANS
Suhren Engine Co. . . . . 8330 Earhart Blvd. . . . 70118
MARYLAND
TAKOMA PARK
Center Supply Co. . . . . 6867 New Hampshire Ave. . 20012
MASSACHUSETTS
SPRINGFIELD
Morton B. Collins Co. . . . . 300 Birnie Ave. 01107
MICHIGAN
MOUNT CLEMENS
Power Equipment Dist. . . . . 36463 South Gratiot . . 48043
LANSING
Lorenz Service Co. . . . . 2500 S. Pennsylvania . 48900
MINNESOTA
MINNETONKA
Hance Distributing Inc. . . . . 11212 Wayzata Blvd. . . 55343
ST. PAUL
Power Tools Inc. . . . . 3771 Sibley Memorial Hwy. . 55122
MISSISSIPPI
BILOXI
Biloxi Sales & Service, Inc. . . . . 506 Caillavet St. 39533
MISSOURI
KANSAS CITY
Automotive Equip. Service . . . . . 3117 Holmes St. 64109
ST. JOSEPH
Ross-Frazier Supply Co. . . . . 8th and Monteray 64503
ST. LOUIS
Henzler, Inc. . . . . 2015 Lemay Ferry Rd. . 63125
NEW JERSEY
BELLMAWR
Lawnmower Parts Inc. . . . . 717 Creek Rd., P.O. Box 7 . 08030
RUTHERFORD
Feld Distributor . . . . . 28 Glen Rd. 07070
NEW YORK
CARTHAGE
Gamble Dist., Inc. . . . . West End Ave. 13619
SYRACUSE
GTP Leisure Products Inc. . . . . 420 Marcellus St. 13204
NORTH CAROLINA
GREENSBORO
Dixie Sales Company . . . . . 327 Battleground Ave. 27402
GOLDSBORO
Smith Hardware Co. . . . . 515 N. George St. 27530
OHIO
WADSWORTH
National Central . . . . . 687 Seville Rd. 44281
CLEVELAND
Bleckrie, Inc. . . . . 7900 Lorain Ave. 44102
CARROLL
Stebe's Mid-State Mower Supply. Box 366-71 High St. . . 43112
YOUNGSTOWN
Burton Supply Co. . . . . 1301 Logan Ave. Box 929 . 44501
OKLAHOMA
MUSKOGEE
Victory Motors, Inc. . . . . 605 S. Cherokee. 74401
OKLAHOMA CITY
Forest Sales Inc. . . . . 1039 NW 63rd St. 73116
ADA
Ada Auto Supply . . . . . 301 E. 12th St. 74820
OREGON
PORTLAND
Kenton Supply Co. . . . . 8216 N. Denver Ave. . . 97217
PENNSYLVANIA
CHESTER
Stull Equipment Corp. . . . . 742 W. Front St. 19013
HARRISBURG
EECO Inc. . . . . 4021 N. 6th St. 17110
PHILADELPHIA
Thompson Rubber Co. . . . . 5222-24 N Fifth St. . . . 19120
PITTSBURGH
Bluemont Co. . . . . 11125 Frankstown Rd. 15235
TENNESSEE
KNOXVILLE
Master Repair Service . . . . . 2423 Broadway, N.E. . 37917
MEMPHIS
Memphis Cycle & Supply Co. . . . 421 Monroe Ave. . . . . 381(
American Sales & Service, Inc. . . 1922 Lynnbrook 38116
TEXAS
DALLAS
Marr Brothers, Inc. . . . . 423 E. Jefferson. 75203
HOUSTON
Bullard Supply Co. . . . . 2409 Commerce St. . . . 77003
SAN ANTONIO
Catto & Putty, Inc. . . . . P.O. Box 2408 78206
FORT WORTH
Woodson Sales Corp. . . . . 1702 N. Sylvania 76111
UTAH
SALT LAKE CITY
A-1 Engine & Mower Co. . . . . 437 E. 9th St. 84111
VERMONT
BURLINGTON
Vermont Hdwe. Co. Inc. . . . . 180 Flynn Ave. 05401
VIRGINIA
RICHMOND
RBI Corp. . . . . 963 Myers St. 23260
WASHINGTON
SEATTLE
Bailey's Inc. . . . . 1414 14th Ave. 98122
WEST VIRGINIA
CHARLESTON
Young's, Inc. . . . . 233 Virginia St., E. . . . 25301
WISCONSIN
APPLETON
Automotive Supply Co. . . . . 123 S. Linwood Ave. . . 54911

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should h handled by your nearest authorized engine service firm. Check t yellow pages of your telephone directory under the listi **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**